



U. S. NAVAL CIVIL ENGINEERING  
LABORATORY  
PORT HUENEME, CALIFORNIA

IN REPLY REFER TO

L53/RJS/od  
Y-F015-01-001(g)

RA 1163

JUL 2 '63

From: Commanding Officer and Director  
To: Commander, U. S. Naval Oceanographic Office, Washington 25, D. C.  
(Code 3800)

Subj: Deep Sea Sediment Cores; analysis of

Ref: (a) NOL ltr to Chief, BUDOCKS Ser. 2613 of 31 Jan 1963

Incl: (1) (SC) Cuts of cores and intervals

1. A portion of the physical analyses of the deep sea sediment cores considered in reference (a) has been completed.

2. Representative cuts of the following cores and intervals are forwarded to your office as enclosures (1):

BS-4, 0<sup>4</sup>3, 6-9, 12-15, 18-21, 24-27, 30-33, 36-39, 42-45, 48-51, 54-57,  
60-63.

BS-5, 2.0-4.5, 7.5-10.5, 14.0-16.5, 19.5-22.5, 26.0-28.5, 31.5-34.5,  
38-40.5, 44-47, 50-52.5, 56-59, 62.0-64.5, 67-70, 74.0-76.5.

BS-9, 0-3, 6-9, 12-15, 18-21, 24-27, 30-33, 36-39, 42-45, 48-51,  
54-57, 60-63, 66-69, 72-75, 78-81, 84-87.

3160 | Bottom  
Sediments

Copy to:  
BUDOCKS (Code 42)

K-2

~~SECRET~~ ANALYSES OF MARINE SEDIMENTS  
IN  
AREA "H", EASTERN PACIFIC

Introduction

Area "H" lies approximately 260 miles west of Ensenada in the Baja California Seamount Province. Abyssal depths ranging from 3712 to 4133 meters were recorded in the area, with the exception <sup>in the area of BS-12</sup> of station # 12 where a steep-sided seamount was encountered at a depth of 2706 meters. This seamount was sampled along the flank at 3109 meters and presented an environment distinctly different for that of the surrounding abyssal plain.

Fourteen cores were taken in the area, distributed as shown in Fig.

1. Core length and subsampling intervals are given in the accompanying summary sheets for each core. A total of 144 subsamples were analyzed for textural characteristics, carbonate, and organic carbon content. Engineering properties were run on each core, with analyses of water content, wet <sup>grain</sup> unit weight, cohesion and specific gravity. These properties are summarized in the appended sheets.

Textural and Chemical Characteristics

Texture: With the exception of station # 12, typical deep-sea "red clay" predominates in the study area, classified texturally in this report as "silty clay". This predominance, previously reported by Revelle (1955), is well shown <sup>BS-12</sup> ~~shows well~~ in Table 1, which summarizes the subsample sediment characteristics. Of the total 155 subsamples taken, 144 exhibit the expected character of a true pelagic "red clay".

Since pelagic "red clay" deposition constitutes normal sedimentation, explanation must be made concerning the sediment types departing from this

norm. One may be eliminated quickly; the lone "gravel" type (Table 1) occurred by the chance inclusion of a 36 mm manganese nodule in a normal red clay sample, thus presenting a somewhat erroneous picture. The distribution of authigenic manganese nodules will be discussed later.

Four samples of "silty mud" and one of "clayey silt" typify the core at station # 12 on the flank of the seamount. Here foraminiferal tests, chiefly globigerina, comprise the bulk of the sediment, the sand and silt particle size of the tests increasing the median diameter of the sediment and resulting in a poorer sorting coefficient (Table 1). Globigerina oozes commonly occur on seamounts where lesser pressure due to the decreased depth permit accumulation.

The remaining occurrence of "silty mud", also a globigerina ooze, is less easily explained. It occurs as a 7 cm layer at the bottom of the core at station # 24. No other such layer occurred in any of the other ocean floor cores although several exceeded core # 24 in length. One possible explanation might be rapid deposition and burial by mass movement originating at a higher elevation, although no features distinguishing such action were noted.

The remaining anomalous occurrences of three "clayey silt" and one "sandy silt" represent layers of volcanic glass shards present in cores # 23, 24, and 32 at stations # 23, 31, and 32. A thin layer too fine for adequate sampling was also noted at station # 24. The presence of volcanics is not unexpected, having been previously noted (Emery, 1960), but the distribution of these distinctive layers of clean glass remains a problem. The layers were located at varying core depths, 238 cm in core # 23, 85 cm in core # 24, 270 cm in

the area of

core # 31, and 275 cm in core # 32. Either sedimentation has varied throughout the area and the glass layer is present below sampling depth in the remaining cores, or the activity producing these layers was very localized.

Chemistry: The carbonate content of sediments in the area is, as expected, low in the abyssal "red clay", averaging about 10%; and high in the globigerina ooze of the seamount, with an average of 67%. Microfaunal tests comprise the bulk of this carbonate content. Tests from the deeper areas show the effects of solution, fragments of them showing the effects of solution in the deeper areas.

The organic carbon content on the seamount, 0.17%, was the lowest encountered in the area. For the "red clay" percentages ranged from 0.46 to 0.95% and averaged 0.74%. Analyses were made only at the top of each core.

Manganese nodules were encountered in three cores. On the seamount in core # 12 small nodules (70mm) were distributed throughout the core. One larger nodule, 36 mm in size, was found at the top of core # 16, while the rest of the core was uniform "red clay". Two small nodules (5mm.) were located at 16 and 32 cm in core # 27.

The volcanic glass shards, previously mentioned, were identified as such under the petrographic microscope. While these shards were chiefly located in the highly concentrated layers noted, a few were scattered throughout most of each core. Along with these shards, bits of pumice, volcanic ash, and several heavy minerals were also found in the otherwise uniform "red clay" and globigerina ooze, further attesting to the proximity of volcanic activity through a long period of geologic time.

TABLE 1  
SEDIMENT CHARACTERISTICS BY SEDIMENT TYPE  
(Total Core Depth)

Sediment Type	No. of Sub-Samples	Median (mm) <u>Average</u> <u>Range</u>	Sorting Coef. <u>Average</u> <u>Range</u>	CO <sub>3</sub> (%) <u>Average</u> <u>Range</u>
Silty Clay	144	.002 .001 - .004	3.23 1.87 - 6.46	10.4 4 - 61
Clayey Silt	4	.010 .004 - .017	3.63 2.97 - 4.48	24 4 - 80
Silty Mud	5	.019 .010 - .030	4.76 4.18 - 5.33	65.6 54.-85
Sandy Silt	1	.028 .028	1.98 1.98	2 2
Gravel	1	36.000 36.000	1 1.00 1.00	10 10

## ENGINEERING PROPERTIES

a publication by

Engineering studies were conducted on thirteen Kullenberg type gravity cores, and one Ewing type gravity core. The corers are described in the U.S. Navy Hydrographic Office (1955, p. 54-66). Oxidation and some desiccation was visible in the top 40 cm of the Ewing core (BS-31). This is quite common in Ewing cores with ~~the~~ plastic liners, thus no engineering analyses were performed on the ~~top 40 cm~~. Engineering tests were ~~performed~~ made only where the sampling interval (7-10 cm) encompassed a megascopically ~~visible~~ homogeneous sediment. Cores with thin lenses of <sup>volcanic</sup> glass, globigerina tests, or single manganese nodules were not analyzed at those specific intervals. The majority of the sediment types in Area "H" can be classified as "silty clay". In some cores, notably BS-12 and BS-24, there ~~was~~ were a higher percentage of large grain materials which resulted in anomalous engineering data relative to other samples from area "H". The large anomalies are explained more fully in the ~~summary paragraph~~ following.

### Paragraph 2

Four primary engineering tests were ~~made~~ conducted on the cores taken from area "H". These include wet unit weight ( $\text{g/cm}^3$ ), water content (percent of dry weight), <sup>cohesion</sup> ~~whesion~~ ( $\text{g/cm}^2$ ) both natural and remolded, and grain specific gravity. The first three tests are dependent upon the in situ water content remaining unchanged from the time of collection to the time of laboratory analysis. Cohesion, or the capacity of the sediments to resist shearing stresses, was measured with a laboratory vane apparatus. Cohesion was determined both in the natural and remolded states in order to determine sensitivity or the ratio of the natural ~~whesion~~ <sup>cohesion</sup> to the remolded ~~whesion~~. Voids ratio ( $e$ ) is the ratio of the volume of void space to the volume of solid particles in a given sediment mass. Porosity ( $n$ ) is also a ratio, and is usually expressed as a percentage of the volume of voids of a given

to the total volume of the sediment mass.

sediment mass. Void ratio and porosity are calculated values dependent upon the wet unit weight, water content and ~~the~~<sup>grain</sup> specific gravity. The porosity is directly proportional to the voids ratio and is calculated from the equation,  $n = \frac{e}{1 + e}$ .



A few cores from area "H" present erratic values as compared to the average or mean values for ~~this~~ <sup>cohesion</sup> area. The average ~~whesion~~ in cores BS-12

(flank of seamount) and BS-27 (south of the seamount) was the highest (~~122.1-130~~ <sup>BS</sup> g/cm<sup>2</sup>) in area "H". Large size particles such as manganese

<sup>Globigerina</sup> nodules and ~~globgerina~~ tests, plus lower water content percentages are probably the reason for the high cohesion in BS-12 and to a lesser extent

in BS-27. The larger particles also result in low porosity and void ratio values in BS-12. These values range from 59.0 to 68.9 percent and 1.44 to 2.22 respectively. Water content, cohesion, and wet unit weight

in BS-12 range from 50.7 to 87.9 percent, 122.3 to 137.1 g/cm<sup>2</sup>, and 1.57 to 1.70 g/cm<sup>3</sup> respectively. Although there is a wide range of data from area "H", BS-12 appears to deviate the most from any average or mean value.

The remaining data excludes BS-12.

A second anomaly that deserves mention is the 237 to 244 cm depth inter-

val in core BS-24. Water content, voids ratio, and porosity in this inter-

val are much lower than the average. ~~The main reason for the low values is the presence of~~ These low values probably result from

~~the higher percentage of coarse size material such as globigerina tests~~

and volcanic debris in the form of pumice. ~~Water~~ Water content, voids ratio,

102

percent

and porosity are 93 percent, 2.50, and 71.4 percent respectively. The only other anomaly is in the ~~top~~<sup>0.6</sup> 10 cm interval of BS-28 where water content (86.4%) was the only measurement made. The low percentage is probably due to desiccation after the core was collected. The remaining data which are summarized in the next paragraph exclude the data just described. For a detailed explanation of variation of engineering properties with depth in submarine sediments see Richards, (1961) and (1962).

[REDACTED]

Cohesion or strength in the sediments from area "H" varied from 12.8 g/cm<sup>2</sup> at the top of BS-23 to approximately 337 g/cm<sup>2</sup> in the lower portion of BS-27. Cohesion values usually increased with depth from the top of the cores, and were generally irregular. Most of the cores had their lowest cohesion at or near the top of the cores, and the highest value at an intermediate depth or at the bottom. Water content varied from 109.3 to 158.4 percent. The irregularity of the water content coincided with the irregular cohesion values, and in most cases an inverse relationship existed between water content and cohesion. Wet unit weight and grain specific gravity varied from 1.33 to 1.50 g/cm<sup>3</sup>, and 2.62 to 2.78 respectively. This variation is due primarily to the size of the grains, percentage of heavy minerals and grain packing. Porosity and voids ratio which are related by the previously described equation appear to be uniform. These values ranged from 75.4 to 81.1 percent and 3.07 to 4.28 respectively. See Appendix A for details of the analyses performed. For a more detailed explanation of terms and procedures mentioned herein the reader is referred to standard soil mechanics texts. (Terzaghi and Peck, 1948), (Taylor, 1948).

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## References cited

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Taylor, D. W. (1948), Fundamentals of Soil Mechanics. New York, Wiley, 700 p.

Terzaghi, K. and Peck, R. B. (1948),  
Soil Mechanics in Engineering Practice.  
New York, Wiley, 566 p.

U. S. Navy Hydrographic Office (1955) Instruction manual for oceanographic observations. 2d. ed.  
Hydrographic Office Publications no. 607, Washington, 210 p.

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B.S -	Sediment type	
12	0-51 <u>SM</u> , 67-74 <u>CS</u> , 99.5-128 <u>SC</u>	Mn nodules 9-29 83-83.8 ✓ FORAMS
14	0-173.5 <u>SC</u>	Uniform Red Clay homo-
15	0-162 - <u>SC</u>	"
16	* , 15-11.2 <u>SC</u>	" + black speck. 0-2 GRAVEL Mn nodules
20	0-284 <u>SC</u>	homo -
23	0-170 <u>SC</u> , 238-243 <u>CS</u> , 249-254 <u>SC</u>	homo - 237-244 Vol. cog + pumice
24	0-207 <u>SC</u> , 237-244 <u>SM</u>	85-92 Vol. glass
27	0-222 <u>SC</u>	Mn nodules 16-17, 32-33
28	0-184 <u>SC</u>	Uniform Forams 43-44
30	0-319.5 <u>SC</u>	"
31	0-280 <u>SC</u>	homo - Volcanic glass 273-274
32	0 - <u>SC</u>	Volcanic glass 277-279
34	0-306.5 <u>SC</u>	homo
35	0-278 <u>SC</u>	homo -

SC - silty clay

SM - silty mud

CS - clayey silt

262

BS-12 - high unit wt, cohesion, and low moisture porosity and voids ratio appear to be related to the presence of the mm nodules & specks.

BS-14 homogeneous silty clay.

BS-15 homogeneous silty clay

BS-16 homogeneous silty clay, 0-2 cm nodules and some very black specks - these don't seem to affect the eng. properties.

BS-20 - homogeneous silty clay

BS-23 homogeneous silty clay, higher cohesion and unit weight probably due to higher silt content near bottom of core

BS-24 high cohesion and low porosity probably due higher percent of silt & sand

237-244 silty mud

0-207 silty clay

glass at 85-92 cm high porosity at 132-139?

BS-27 0-222 cm homogeneous silty clay  
presence.

very high cohesion in this area near  
the seamount - iron nodules present

BS-28 homogeneous silty clay  
pumice 43-44 cm

BS-30 homogeneous silty clay

BS-31 homogeneous silty clay  
volcanic glass 273-274

BS-32

204

BS-34

BS-35

*Top*

Run	Cohesion	Porosity	Unit wt
12(19-21)	-	69	1.57
14(8.5-5)	53	76	1.42
15(10-17)	57	77	1.40
16(8-15)	40	77	1.40
20(10-17)	97	77	1.41
23(10-17)	13	79	1.36
24(10-17)	24	78	1.39
27(10-17)	51	76	1.44
28(10-17)	56	77	1.42
30(10-17)	65	76	1.41
31	-	-	-
34(11-18)	58	78	1.38
35(10-17)	48	79	1.37

77%

114 - 140 Moisture

low	all	high
13	BS 12	0
1	BS-14	0
0	BS-15	0
0	BS-16	5
0	BS-20	4
0	BS-23	5
1	BS-24	6
2	BS-27	1
1	BS-28	
0	BS-30	0
2	BS-31	
0	BS-32	0
-	BS-34	6
	BS-35	9
<hr/>		
20		<hr/> 36

187

243

*cohesion*

76

75-91

low

high

0

2

3

1

0

4

0

0

3

0

1

5

3

0

4

0

2

2

0

5

3

1

3

4

0

1

5

2

1

3

0

1

2

4

0

3

5

0

2

4

0

1

46

8

23

2  
111

1,3,5 - decrease  
2,4,6 - increase

•ANOMALOUS

	Area "H"													Area "G"			
	12	14	15	16	20	23	24	27	28	30	31	32	34	35	11	36	37
sensitivity	1	2	7	7	7	1	7	7	7	7	7	7	7	7	7	2	7
Net cohesion	7	7	1			7			4						7	1	
Porosity	5	12	4	2	7	4	7	7	4	7	7	2	7	2	7	5	-
Void Ratio	7					4			7	4	4	7	2	7	4		-
spec. Grav.	2	2	7	1	7	7	7	7	12	2	7	3	7	7	7	3	6
unit wt.	2	7	1	1	2	4	1	7	7	1	7	2					-

## cohesion

- 12) starts only, highest at middle, lowest at bottom  
OK
- 13) the lowest at bottom, highest below middle
- 14) ✓ increases with depth ✓ constant
- 15) ✓ increases with depth ✓
- 16) ✓ increases with depth ✓
- 17) highest at top - lowest near top & near bottom  
quite irregular - but the max & min value  
does not vary greatly.
- 18) ✓ increases with depth ✓ constant
- 19) increases w/depth ✓ constant ?
- 20) lowest se at top - highest near bottom  
quite irregular
- 21) increases with depth - lowest near top
- 22) quite irregular - but max & min does  
not vary greatly - low near top & high  
near bottom

- 210
- 3 test ✓
- 31) lowest near top highest at bottom ✓
- 32) quite irregular - lowest near top  
+ highest near bottom ✓
- 33) irregular low near top - lowest <sup>postmiddle</sup> near  
highest at bottom. ✓
- 35) irregular - low upper middle  
~~and~~ ~~bottom~~ at bottom ✓

Item NCEL

2480		2405
2485		
	2481	
	2480	
2480		
	2484	
	2514	2420
2560		2474
	2640	
	2660	2640
128° W.		
	2560	
	2480	2560
2703		2560
	2500	
23 CORES IN AREA		

OFF COAST FROM SAN FRANCISCO  
DELGADA  
OUTER EDGE OF ~~DELGADA~~ FAN

36° N.

USCGS 6002

**CORE ANALYSIS SUMMARY SHEET**  
**ENGINEERING PROPERTIES**

NAVOCIANO-ER-1102/10-1 (Rev. 1-63)

ANALYST OR  
NCCL - Pt. Hueneke

DATE 25 April 1963

1. CRUISE NO.	2. LATITUDE	3. LONGITUDE	4. SAMPLE NO.	5. DATE TAKEN (D.Y., Month, Year)	6. WATER DEPTH (m)	7. TYPE CORE Kullenberg, Gravity	8. CORE LENGTH (cm)	9. CORE PENETRATION (cm)	10. SUBSAMPLE DEPTH IN CORE (cm)	11. WET UNIT WEIGHT (g/cm³)	12. SPECIFIC GRAVITY OF SOLIDS	13. WATER CONTENT (% dry weight)	14. VOID RATIO	15. SATURATED VOID RATIO	16. POROSITY (%)	17. LIQUID LIMIT	18. PLASTIC LIMIT	19. PLASTICITY INDEX	20. LIQUIDITY INDEX	21. COMPRESSION INDEX FROM LL	22. COMPRESSIVE STRENGTH NATURAL (g/cm²)	23. COHESION NATURAL (g/cm²)	24. SENSITIVITY	25. ANGLE OF INTERNAL FRICTION (°)	26. ACTIVITY	27. MODULUS OF ELASTICITY	28. SLUMP (cm)	11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. REMARKS
Project D-5	35° 12.8'	122° 00.5'	BS-1	16/11/62	2981	168	168	168	00.76	1.379	2.644	116.6	3.149	3.083	75.9	—	—	—	—	0.79	42.9	4.2	—	—	—	—	116	
									152-22.9	1.416	2.578	128.0	3.149	3.300	75.9	—	—	—	—	0.79	42.9	4.2	—	—	—	—	116	
									30.5-38.1	1.380	2.463	125.5	3.032	2.948	75.2	—	—	—	—	0.79	42.9	4.2	—	—	—	—	116	
									457-53.3	1.409	2.604	113.2	3.115	3.119	75.2	—	—	—	—	0.79	42.9	4.2	—	—	—	—	116	
									61.0-68.6	1.413	2.677	116.5	2.937	2.948	75.5	—	—	—	—	0.79	42.9	4.2	—	—	—	—	116	
									72.2-83.5	1.409	2.322	121.5	3.115	3.119	75.5	—	—	—	—	0.79	42.9	4.2	—	—	—	—	116	
									91.4-99.1	1.411	2.759	110.5	3.032	3.000	75.5	—	—	—	—	0.79	42.9	4.2	—	—	—	—	116	
									107-114	1.409	2.681	117.4	3.000	3.020	75.5	—	—	—	—	0.79	42.9	4.2	—	—	—	—	116	
									122-130	1.417	2.744	109.2	3.020	3.000	75.5	—	—	—	—	0.79	42.9	4.2	—	—	—	—	116	
									140-147	1.419	2.651	115.5	2.704	2.704	75.5	—	—	—	—	0.79	42.9	4.2	—	—	—	—	116	
									147-157	1.419	2.600	115.5	2.953	2.953	75.5	—	—	—	—	0.79	42.9	4.2	—	—	—	—	116	

Twigs, grass, pieces of wood present at and near top of core. Material has quite a silty feel.  
Organic growth discolors green to black in upper half of core.

CONE AWARENESS IN FOREST PROPERTY

Annoto in Nisus - R. Hussain  
Date 25/07/2016

1. CONE	0.5	4. CONE NO.	85-
2. LAVENDER	0.1	5. CONE LENGTH	14.7 cm
3. LAVENDER	0.1	6. CONE DIAMETER	1.6 mm
4. LAVENDER	0.1	7. CONE WEIGHT	2.9 g
5. LAVENDER	0.1	8. CONE, PRACTICAL TEST	100% (good)
6. LAVENDER	0.1	9. CONE, PRACTICAL TEST	100% (good)
7. LAVENDER	0.1	10. CONE, PRACTICAL TEST	100% (good)
8. LAVENDER	0.1	11. CONE, PRACTICAL TEST	100% (good)
9. LAVENDER	0.1	12. CONE, PRACTICAL TEST	100% (good)
10. LAVENDER	0.1	13. CONE, PRACTICAL TEST	100% (good)
11. LAVENDER	0.1	14. CONE, PRACTICAL TEST	100% (good)
12. LAVENDER	0.1	15. CONE, PRACTICAL TEST	100% (good)
13. LAVENDER	0.1	16. CONE, PRACTICAL TEST	100% (good)
14. LAVENDER	0.1	17. CONE, PRACTICAL TEST	100% (good)
15. LAVENDER	0.1	18. CONE, PRACTICAL TEST	100% (good)
16. LAVENDER	0.1	19. CONE, PRACTICAL TEST	100% (good)
17. LAVENDER	0.1	20. CONE, PRACTICAL TEST	100% (good)
18. LAVENDER	0.1	21. CONE, PRACTICAL TEST	100% (good)
19. LAVENDER	0.1	22. CONE, PRACTICAL TEST	100% (good)
20. LAVENDER	0.1	23. CONE, PRACTICAL TEST	100% (good)
21. LAVENDER	0.1	24. CONE, PRACTICAL TEST	100% (good)
22. LAVENDER	0.1	25. CONE, PRACTICAL TEST	100% (good)
23. LAVENDER	0.1	26. CONE, PRACTICAL TEST	100% (good)
24. LAVENDER	0.1	27. CONE, PRACTICAL TEST	100% (good)
25. LAVENDER	0.1	28. CONE, PRACTICAL TEST	100% (good)
26. LAVENDER	0.1	29. CONE, PRACTICAL TEST	100% (good)
27. LAVENDER	0.1	30. CONE, PRACTICAL TEST	100% (good)
28. LAVENDER	0.1	31. CONE, PRACTICAL TEST	100% (good)
29. LAVENDER	0.1	32. CONE, PRACTICAL TEST	100% (good)
30. LAVENDER	0.1	33. CONE, PRACTICAL TEST	100% (good)
31. LAVENDER	0.1	34. CONE, PRACTICAL TEST	100% (good)
32. LAVENDER	0.1	35. CONE, PRACTICAL TEST	100% (good)
33. LAVENDER	0.1	36. CONE, PRACTICAL TEST	100% (good)
34. LAVENDER	0.1	37. CONE, PRACTICAL TEST	100% (good)
35. LAVENDER	0.1	38. CONE, PRACTICAL TEST	100% (good)
36. LAVENDER	0.1	39. CONE, PRACTICAL TEST	100% (good)
37. LAVENDER	0.1	40. CONE, PRACTICAL TEST	100% (good)
38. LAVENDER	0.1	41. CONE, PRACTICAL TEST	100% (good)
39. LAVENDER	0.1	42. CONE, PRACTICAL TEST	100% (good)
40. LAVENDER	0.1	43. CONE, PRACTICAL TEST	100% (good)
41. LAVENDER	0.1	44. CONE, PRACTICAL TEST	100% (good)
42. LAVENDER	0.1	45. CONE, PRACTICAL TEST	100% (good)
43. LAVENDER	0.1	46. CONE, PRACTICAL TEST	100% (good)
44. LAVENDER	0.1	47. CONE, PRACTICAL TEST	100% (good)
45. LAVENDER	0.1	48. CONE, PRACTICAL TEST	100% (good)
46. LAVENDER	0.1	49. CONE, PRACTICAL TEST	100% (good)
47. LAVENDER	0.1	50. CONE, PRACTICAL TEST	100% (good)
48. LAVENDER	0.1	51. CONE, PRACTICAL TEST	100% (good)
49. LAVENDER	0.1	52. CONE, PRACTICAL TEST	100% (good)
50. LAVENDER	0.1	53. CONE, PRACTICAL TEST	100% (good)
51. LAVENDER	0.1	54. CONE, PRACTICAL TEST	100% (good)
52. LAVENDER	0.1	55. CONE, PRACTICAL TEST	100% (good)
53. LAVENDER	0.1	56. CONE, PRACTICAL TEST	100% (good)
54. LAVENDER	0.1	57. CONE, PRACTICAL TEST	100% (good)
55. LAVENDER	0.1	58. CONE, PRACTICAL TEST	100% (good)
56. LAVENDER	0.1	59. CONE, PRACTICAL TEST	100% (good)
57. LAVENDER	0.1	60. CONE, PRACTICAL TEST	100% (good)
58. LAVENDER	0.1	61. CONE, PRACTICAL TEST	100% (good)
59. LAVENDER	0.1	62. CONE, PRACTICAL TEST	100% (good)
60. LAVENDER	0.1	63. CONE, PRACTICAL TEST	100% (good)
61. LAVENDER	0.1	64. CONE, PRACTICAL TEST	100% (good)
62. LAVENDER	0.1	65. CONE, PRACTICAL TEST	100% (good)
63. LAVENDER	0.1	66. CONE, PRACTICAL TEST	100% (good)
64. LAVENDER	0.1	67. CONE, PRACTICAL TEST	100% (good)
65. LAVENDER	0.1	68. CONE, PRACTICAL TEST	100% (good)
66. LAVENDER	0.1	69. CONE, PRACTICAL TEST	100% (good)
67. LAVENDER	0.1	70. CONE, PRACTICAL TEST	100% (good)
68. LAVENDER	0.1	71. CONE, PRACTICAL TEST	100% (good)
69. LAVENDER	0.1	72. CONE, PRACTICAL TEST	100% (good)
70. LAVENDER	0.1	73. CONE, PRACTICAL TEST	100% (good)
71. LAVENDER	0.1	74. CONE, PRACTICAL TEST	100% (good)
72. LAVENDER	0.1	75. CONE, PRACTICAL TEST	100% (good)
73. LAVENDER	0.1	76. CONE, PRACTICAL TEST	100% (good)
74. LAVENDER	0.1	77. CONE, PRACTICAL TEST	100% (good)
75. LAVENDER	0.1	78. CONE, PRACTICAL TEST	100% (good)
76. LAVENDER	0.1	79. CONE, PRACTICAL TEST	100% (good)
77. LAVENDER	0.1	80. CONE, PRACTICAL TEST	100% (good)
78. LAVENDER	0.1	81. CONE, PRACTICAL TEST	100% (good)
79. LAVENDER	0.1	82. CONE, PRACTICAL TEST	100% (good)
80. LAVENDER	0.1	83. CONE, PRACTICAL TEST	100% (good)
81. LAVENDER	0.1	84. CONE, PRACTICAL TEST	100% (good)
82. LAVENDER	0.1	85. CONE, PRACTICAL TEST	100% (good)
83. LAVENDER	0.1	86. CONE, PRACTICAL TEST	100% (good)
84. LAVENDER	0.1	87. CONE, PRACTICAL TEST	100% (good)
85. LAVENDER	0.1	88. CONE, PRACTICAL TEST	100% (good)
86. LAVENDER	0.1	89. CONE, PRACTICAL TEST	100% (good)
87. LAVENDER	0.1	90. CONE, PRACTICAL TEST	100% (good)
88. LAVENDER	0.1	91. CONE, PRACTICAL TEST	100% (good)
89. LAVENDER	0.1	92. CONE, PRACTICAL TEST	100% (good)
90. LAVENDER	0.1	93. CONE, PRACTICAL TEST	100% (good)
91. LAVENDER	0.1	94. CONE, PRACTICAL TEST	100% (good)
92. LAVENDER	0.1	95. CONE, PRACTICAL TEST	100% (good)
93. LAVENDER	0.1	96. CONE, PRACTICAL TEST	100% (good)
94. LAVENDER	0.1	97. CONE, PRACTICAL TEST	100% (good)
95. LAVENDER	0.1	98. CONE, PRACTICAL TEST	100% (good)
96. LAVENDER	0.1	99. CONE, PRACTICAL TEST	100% (good)
97. LAVENDER	0.1	100. CONE, PRACTICAL TEST	100% (good)

11. LEAVES Turgor, grass, tissue of wood present at and near to top of cone At normal tree  
soil or air dry organic ground conditions on slopes in mountain areas

12. CONE

## CORE ANALYSIS SUMMARY SHEET ENGINEERING PROPERTIES

MAGCIANO ET AL.

ANALYZED BY NCEL - PT. Hue neme

date 26 April 1963

		4. SAMPLE NO.	BS-2	7. TYPE CORER Kullenberg, gravity
1. CRUISE NO. Project D-5	2. LATITUDE 35° 05'	5. DATE TAKEN (day, month, year)	17/11/62	8. CORE LENGTH (cm) 183
3. LONGITUDE 122° 45'	6. WATER DEPTH (m)	4316	9. CORER PENETRATION (cm)	Not recorded
10. SUBSAMPLE DEPTH IN CORE (cm)	0.0-7.6 / 5.2-22.9 / 30.5-38.1 / 45.7-53.3	6.0-68.4 / 74.2-83.8 / 94.9-99.1	107-114	122-130 / 137-145 / 52-160
11. WET UNIT WEIGHT (g/cm³)	1.356 1.325 1.315 1.374	1.318 1.417 1.395 1.451	1.528 1.642	1.575
12. SPECIFIC GRAVITY OF SOLIDS	2.789 2.835 2.602 2.848	2.637 2.795 3.012 3.123	2.709	2.663
13. WATER CONTENT (%) dry weight)	141.8 151.7 143.4 150.0	147.1 115.3 101.2 107.5	68.7 163.0	88.6
14. VOID RATIO	3.975 4.128 4.263 3.739	4.348 3.000 3.032 3.310	2.448 3.348	2.185
15. SATURATED VOID RATIO	3.955 4.084 4.167 3.903	4.189 3.040 2.829 3.238	2.146 4.416	2.359
16. POROSITY (%)	79.9 80.5 81.0 78.9	81.3 75.0 75.2 76.8	71.0 77.0	68.6
17. LIQUID LIMIT	119.5 — 95.3 —	105.6 — 78.4 —	55.1 —	39.7
18. PLASTIC LIMIT	— — — —	— — — —	— —	— —
19. PLASTICITY INDEX	— — — —	— — — —	— —	— —
20. LIQUIDITY INDEX	— — — —	— — — —	— —	— —
21. COMPRESSION INDEX FROM LL	0.99 — 0.76 —	0.86 — 0.61 —	0.41 —	0.27
22. COMPRESSIVE STRENGTH NATURAL (g/cm²)	— — — —	— — — —	— —	— —
REMOULD (g/cm²)	— — — —	— — — —	— —	— —
23. COMPRESSION NATURAL (g/cm²)	61.5 29.9 25.4 24.6	13.1 39.2 20.2 21.6	48.4 48.6 23.6 23.6	63.3
REMOULD (g/cm²)	15.8 6.68 7.31 5.98	4.78 7.31 4.22 4.92	5.41 5.41 11.4 11.4	5.27
24. SENSITIVITY	3.9 4.5 3.5 4.1	2.7 5.4 4.8 4.4	4.4 4.4	12.0
25. ANGLE OF INTERNAL FRICTION (°)	— — — —	— — — —	— —	— —
26. ACTIVITY	— — — —	— — — —	— —	— —
27. MODULUS OF ELASTICITY	— — — —	— — — —	— —	— —
28. SWAMP (%)	— — — —	— — — —	— —	— —
29. REMARKS	— — — —	— — — —	— —	— —

COURT ANNOUNCES ADDITIONAL PROVISIONS

MEET - Pt. 1  
1936 April 1 1963

Upper portion of core mottled green and black. Presumably residual of organic growth top two inches of core highly disseminated in dolomite.

**CORE ANALYSIS SUMMARY SHEET**  
**ENGINEERING PROPERTIES**

ANALYZED BY NCEI - Pt. Hueneme

DATE 23 April 1963

NAVOCLEANO-EP-1107/16-1 (Rev. 1-63)

1. CRUISE NO.	Project D-5	4. SAMPLE NO.	BS-3	7. TYPE CORE	Kullenberg, gravity
2. LATITUDE	34 • 53.5 •	5. DATE TAKEN (day, month, year)	19/11/62	8. CORE LENGTH (cm)	107
3. LONGITUDE	122 • 45 •	6. WATER DEPTH (m)	39.68	9. CORE PENETRATION (cm)	Not recorded
10. SUBSAMPLE DEPTH IN CORE (cm)	0.0-7.6	15.2-22.9	30.5-32.1	45.7-53.3	61.0-64.6
11. WET UNIT WEIGHT (g/cm <sup>3</sup> )	1.315	1.321	1.311	1.365	1.341
12. SPECIFIC GRAVITY OF SOLIDS	2.816	2.543	2.833	2.642	2.520
13. WATER CONTENT (% dry weight)	150.1	146.9	167.2	126.2	150.5
14. VOID RATIO	4.348	3.762	4.780	3.386	3.717
15. SATURATED VOID RATIO	4.227	3.736	4.737	3.334	3.793
16. POROSITY (%)	81.3	79.0	82.7	77.2	78.8
17. LIQUID LIMIT	115.6	—	108.2	—	103.9
18. PLASTIC LIMIT	—	—	—	—	—
19. PLASTICITY INDEX	—	—	—	—	—
20. LIQUIDITY INDEX	—	—	—	—	—
21. COMPRESSION INDEX FROM LL	0.95	—	0.88	—	0.85
22. COMPRESSIVE STRENGTH NATURAL REMOULD	(g/cm <sup>2</sup> ) (g/cm <sup>2</sup> )	—	—	—	—
23. COHESION NATURAL REMOULD	(g/cm <sup>2</sup> ) (g/cm <sup>2</sup> )	34.9 14.1	23.9 7.03	34.2 8.30	19.7 4.99
24. SENSITIVITY	2.5	3.4	4.1	3.9	4.5
25. ANGLE OF INTERNAL FRICTION (°)	—	—	—	—	—
26. ACTIVITY	—	—	—	—	—
27. MODULUS OF ELASTICITY	—	—	—	—	—
28. SLUMP (in)	—	—	—	—	—

29. REMARKS

Top of sample notably desiccated and cracked. Appears all right some 10" to 12" down into sample. Much black mottling and very strong H<sub>2</sub>S odor.

## EXPLANATION OF TESTS

NCB - Pt. No. 1  
on 23 April 1953

1. SAMPLE NO.	100	2. LENGTH	14.5	3. DIA. (mm.)	0.5	4. DIA. (in.)	.020	5. DIA. (mm.)	1.3222	6. DIA. (in.)	.052	7. DIA. (mm.)	1.3111	8. DIA. (in.)	.0515	9. DIA. (mm.)	1.3441	10. DIA. (in.)	.0535	11. TEST DATA	1.3441	12. TEST DATA	1.3441	13. TEST DATA	1.3441	14. TEST DATA	1.3441	15. TEST DATA	1.3441	16. TEST DATA	1.3441	17. TEST DATA	1.3441	18. TEST DATA	1.3441	19. TEST DATA	1.3441	20. TEST DATA	1.3441	21. TEST DATA	1.3441	22. TEST DATA	1.3441	23. TEST DATA	1.3441	24. TEST DATA	1.3441	25. TEST DATA	1.3441	26. TEST DATA	1.3441	27. TEST DATA	1.3441	28. TEST DATA	1.3441	29. TEST DATA	1.3441	30. TEST DATA	1.3441	31. TEST DATA	1.3441	32. TEST DATA	1.3441	33. TEST DATA	1.3441	34. TEST DATA	1.3441	35. TEST DATA	1.3441	36. TEST DATA	1.3441	37. TEST DATA	1.3441	38. TEST DATA	1.3441	39. TEST DATA	1.3441	40. TEST DATA	1.3441	41. TEST DATA	1.3441	42. TEST DATA	1.3441	43. TEST DATA	1.3441	44. TEST DATA	1.3441	45. TEST DATA	1.3441	46. TEST DATA	1.3441	47. TEST DATA	1.3441	48. TEST DATA	1.3441	49. TEST DATA	1.3441	50. TEST DATA	1.3441	51. TEST DATA	1.3441	52. TEST DATA	1.3441	53. TEST DATA	1.3441	54. TEST DATA	1.3441	55. TEST DATA	1.3441	56. TEST DATA	1.3441	57. TEST DATA	1.3441	58. TEST DATA	1.3441	59. TEST DATA	1.3441	60. TEST DATA	1.3441	61. TEST DATA	1.3441	62. TEST DATA	1.3441	63. TEST DATA	1.3441	64. TEST DATA	1.3441	65. TEST DATA	1.3441	66. TEST DATA	1.3441	67. TEST DATA	1.3441	68. TEST DATA	1.3441	69. TEST DATA	1.3441	70. TEST DATA	1.3441	71. TEST DATA	1.3441	72. TEST DATA	1.3441	73. TEST DATA	1.3441	74. TEST DATA	1.3441	75. TEST DATA	1.3441	76. TEST DATA	1.3441	77. TEST DATA	1.3441	78. TEST DATA	1.3441	79. TEST DATA	1.3441	80. TEST DATA	1.3441	81. TEST DATA	1.3441	82. TEST DATA	1.3441	83. TEST DATA	1.3441	84. TEST DATA	1.3441	85. TEST DATA	1.3441	86. TEST DATA	1.3441	87. TEST DATA	1.3441	88. TEST DATA	1.3441	89. TEST DATA	1.3441	90. TEST DATA	1.3441	91. TEST DATA	1.3441	92. TEST DATA	1.3441	93. TEST DATA	1.3441	94. TEST DATA	1.3441	95. TEST DATA	1.3441	96. TEST DATA	1.3441	97. TEST DATA	1.3441	98. TEST DATA	1.3441	99. TEST DATA	1.3441	100. TEST DATA	1.3441
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29. Remarks Top of sample notably dissected and crushed. Appears all right  
sample 10" to 1/2" down into sample. Much black mottling and very  
strong H<sub>2</sub>S odor.

**CORE ANALYSIS SUMMARY SHEET**  
**ENGINEERING PROPERTIES**

ANALYZED BY NCEL - Pt. Hueneme

DATE 29 April 1963

NAVOCIANO-EP-3107/10-1 (Rev. 1-63)

1. CRUISE NO.	Project D-5	4. SAMPLE NO.	BS-4	7. TYPE CORE	Kullenberg, gravity
2. LATITUDE	34° 55'	5. DATE TAKEN (Day, Month, Year)	19/11/62	8. CORE LENGTH (cm)	188
3. LONGITUDE	122° 27.5'	6. WATER DEPTH (m)	3968	9. CORER PENETRATION (cm)	Not recorded
10. SUBSAMPLE-DEPTH IN CORE (cm)	0.0-7.6	11. WET UNIT WEIGHT (g/cm³)	1.308	12. SPECIFIC GRAVITY OF SOLIDS	1.357
11. WET UNIT WEIGHT (g/cm³)	1.289	12. SPECIFIC GRAVITY OF SOLIDS	1.357	13. WATER CONTENT (% dry weight)	2.574
13. WATER CONTENT (% dry weight)	176.9	14. VOID RATIO	4.405	15. SATURATED VOID RATIO	4.576
14. VOID RATIO	4.780	16. POROSITY (%)	82.7	17. LIQUID LIMIT	112.9
15. SATURATED VOID RATIO	4.759	18. PLASTIC LIMIT	—	18. PLASTIC LIMIT	—
16. POROSITY (%)	82.7	19. PLASTICITY INDEX	—	19. PLASTICITY INDEX	—
17. LIQUID LIMIT	104.0	20. LIQUIDITY INDEX	—	20. LIQUIDITY INDEX	—
18. PLASTIC LIMIT	—	21. COMPRESSION INDEX FROM LL	0.93	21. COMPRESSION INDEX FROM LL	0.93
19. PLASTICITY INDEX	—	22. COMPRESSIVE STRENGTH NATURAL (g/cm²)	—	22. COMPRESSIVE STRENGTH NATURAL (g/cm²)	—
20. LIQUIDITY INDEX	—	23. COHESION NATURAL (g/cm²)	12.2	23. COHESION NATURAL (g/cm²)	12.2
21. COMPRESSION INDEX FROM LL	0.85	24. SENSITIVITY	4.1	24. SENSITIVITY	4.1
22. COMPRESSIVE STRENGTH NATURAL (g/cm²)	—	25. ANGLE OF INTERNAL FRICTION (°)	—	25. ANGLE OF INTERNAL FRICTION (°)	—
23. COHESION REHOULD (g/cm²)	—	26. ACTIVITY	—	26. ACTIVITY	—
24. SENSITIVITY	—	27. MODULUS OF ELASTICITY	—	27. MODULUS OF ELASTICITY	—
25. ANGLE OF INTERNAL FRICTION (°)	—	28. SLUMP (S)	—	28. SLUMP (S)	—
26. ACTIVITY	—	29. REMARKS	Original sea water contained at top of plastic tube. Sample does not have appearance of being desiccated. Considerable black organic growth in sample, and strong hydrogen sulphide odor.	29. REMARKS	Original sea water contained at top of plastic tube. Sample does not have appearance of being desiccated. Considerable black organic growth in sample, and strong hydrogen sulphide odor.



**CORE ANALYSIS SUMMARY SHEET**  
**ENGINEERING PROPERTIES**

ANALYZED BY NCEL - Pt. Hueneme  
 DATE 10 April 1963

1. CRUISE NO. Project D-5	4. SAMPLE NO. BS-5	7. TYPE CORE Kullenberg, gravity
2. LATITUDE 34° 53'	5. DATE TAKEN (day, month, year) 19/11/62	8. CORE LENGTH (cm) 216
3. LONGITUDE 122° 14.3'	6. WATER DEPTH (m) 3934	9. CORER PENETRATION (cm)
10. SUBSAMPLE DEPTH IN CORE (cm)	5.1 - 11.5 / 9.5 - 26.7 / 35.6 - 41.9 / 49.6 - 57.2 / 66.0 - 72.4 / 80.0 - 87.7	96.5 - 103 / 112 - 119 / 127 - 133 / 142 - 150 / 157 - 164
11. WET UNIT WEIGHT ( $\text{g/cm}^3$ )	1.281	1.320
12. SPECIFIC GRAVITY OF SOLIDS	2.633	2.556
13. WATER CONTENT (% dry weight)	177.9	179.3
14. VOID RATIO	4.714	4.405
15. SATURATED VOID RATIO	4.684	4.583
16. POROSITY (%)	82.5	81.5
17. LIQUID LIMIT	116.1	—
18. PLASTIC LIMIT	—	—
19. PLASTICITY INDEX	—	—
20. LIQUIDITY INDEX	—	—
21. COMPRESSION INDEX FROM LL	0.95	0.85
22. COMPRESSIVE STRENGTH NATURAL ( $\text{kg/cm}^2$ )	—	—
REMOULD ( $\text{kg/cm}^2$ )	—	—
23. COHESION NATURAL ( $\text{kg/cm}^2$ )	18.4	22.6
REMOULD ( $\text{kg/cm}^2$ )	7.31	5.62
24. SENSITIVITY	2.5	4.0
25. ANGLE OF INTERNAL FRICTION ( $^\circ$ )	—	—
26. ACTIVITY	—	—
27. MODULUS OF ELASTICITY	—	—
28. SLUMP (in)	—	—
29. REMARKS	Upper portion of core appears partially desiccated. Horizontal crack has formed near surface of core. Vertical crack exists throughout much of its length. Entire core markedly mottled green and black, presumably the result of organic growth.	

**CORE ANALYSIS SUMMARY SHEET**  
**ENGINEERING PROPERTY IIS**

ABOVE TEND. W. 100' 3

**CORE ANALYSIS SUMMARY SHEET**  
**ENGINEERING PROPERTIES**

ANALYZED BY NCEL - Pt. Hueneme

NAVOCANO-DR-21670-B (Rev. 1-63)

DATE 19 April 1963

1. CRUISE NO.	2. LATITUDE	3. LONGITUDE	4. SAMPLE NO.	5. DATE TAKEN (DAY, MONTH, YEAR)	6. WATER DEPTH (m)	7. TYPE CORER Kullenberg, GRAVITY	8. CORE LENGTH (cm)	9. CORE PENETRATION (cm)	10. SUBSAMPLE DEPTH IN CORE (cm)	11. WET UNIT WEIGHT (g/cm<sup>3</sup>)	12. SPECIFIC GRAVITY OF SOLIDS	13. WATER CONTENT (% dry weight)	14. VOID RATIO	15. SATURATED VOID RATIO	16. POROSITY (%)	17. LIQUID LIMIT	18. PLASTIC LIMIT	19. PLASTICITY INDEX	20. LIQUIDITY INDEX	21. COMPRESSION INDEX FROM LL	22. COMPRESSIVE STRENGTH NATURAL (g/cm<sup>2</sup>)	23. COHESION REMOLD (g/cm<sup>2</sup>)	24. SENSITIVITY	25. ANGLE OF INTERNAL FRICTION (°)	26. ACTIVITY	27. MODULUS OF ELASTICITY	28. SLUMP (S)	11. 34 ° 55 '	12. 121 ° 59 '	13. 0.0-7.6	14. 5.2-22.9	15. 30.5-38.1	16. 45.7-53.3	17. 61.0-68.4	18. 76.2-83.5	19. 91.4-99.1	20. 3749	21. 1.297	22. 1.266	23. 1.332	24. 1.370	25. 1.346	26. 1.380	27. 1.368	28. 1.368	29. 1.368	30. 2.430	31. 2.588	32. 2.532	33. 2.547	34. 2.451	35. 2.713	36. 2.498	37. 2.652	38. 1.172	39. 1.172	40. 1.297	41. 1.297	42. 1.332	43. 1.370	44. 1.346	45. 1.380	46. 1.368	47. 1.172	48. 1.172	49. 1.297	50. 1.297	51. 1.332	52. 1.370	53. 1.346	54. 1.380	55. 1.368	56. 1.172	57. 1.172	58. 1.297	59. 1.297	60. 1.332	61. 1.370	62. 1.346	63. 1.380	64. 1.368	65. 1.172	66. 1.172	67. 1.297	68. 1.297	69. 1.332	70. 1.370	71. 1.346	72. 1.380	73. 1.368	74. 1.172	75. 1.172	76. 1.297	77. 1.297	78. 1.332	79. 1.370	80. 1.346	81. 1.380	82. 1.368	83. 1.172	84. 1.172	85. 1.297	86. 1.297	87. 1.332	88. 1.370	89. 1.346	90. 1.380	91. 1.368	92. 1.172	93. 1.172	94. 1.297	95. 1.297	96. 1.332	97. 1.370	98. 1.346	99. 1.380	100. 1.368	101. 1.172	102. 1.172	103. 1.297	104. 1.297	105. 1.332	106. 1.370	107. 1.346	108. 1.380	109. 1.368	110. 1.172	111. 1.172	112. 1.297	113. 1.297	114. 1.332	115. 1.370	116. 1.346	117. 1.380	118. 1.368	119. 1.172	120. 1.172	121. 1.297	122. 1.297	123. 1.332	124. 1.370	125. 1.346	126. 1.380	127. 1.368	128. 1.172	129. 1.172	130. 1.297	131. 1.297	132. 1.332	133. 1.370	134. 1.346	135. 1.380	136. 1.368	137. 1.172	138. 1.172	139. 1.297	140. 1.297	141. 1.332	142. 1.370	143. 1.346	144. 1.380	145. 1.368	146. 1.172	147. 1.172	148. 1.297	149. 1.297	150. 1.332	151. 1.370	152. 1.346	153. 1.380	154. 1.368	155. 1.172	156. 1.172	157. 1.297	158. 1.297	159. 1.332	160. 1.370	161. 1.346	162. 1.380	163. 1.368	164. 1.172	165. 1.172	166. 1.297	167. 1.297	168. 1.332	169. 1.370	170. 1.346	171. 1.380	172. 1.368	173. 1.172	174. 1.172	175. 1.297	176. 1.297	177. 1.332	178. 1.370	179. 1.346	180. 1.380	181. 1.368	182. 1.172	183. 1.172	184. 1.297	185. 1.297	186. 1.332	187. 1.370	188. 1.346	189. 1.380	190. 1.368	191. 1.172	192. 1.172	193. 1.297	194. 1.297	195. 1.332	196. 1.370	197. 1.346	198. 1.380	199. 1.368	200. 1.172	201. 1.172	202. 1.297	203. 1.297	204. 1.332	205. 1.370	206. 1.346	207. 1.380	208. 1.368	209. 1.172	210. 1.172	211. 1.297	212. 1.297	213. 1.332	214. 1.370	215. 1.346	216. 1.380	217. 1.368	218. 1.172	219. 1.172	220. 1.297	221. 1.297	222. 1.332	223. 1.370	224. 1.346	225. 1.380	226. 1.368	227. 1.172	228. 1.172	229. 1.297	230. 1.297	231. 1.332	232. 1.370	233. 1.346	234. 1.380	235. 1.368	236. 1.172	237. 1.172	238. 1.297	239. 1.297	240. 1.332	241. 1.370	242. 1.346	243. 1.380	244. 1.368	245. 1.172	246. 1.172	247. 1.297	248. 1.297	249. 1.332	250. 1.370	251. 1.346	252. 1.380	253. 1.368	254. 1.172	255. 1.172	256. 1.297	257. 1.297	258. 1.332	259. 1.370	260. 1.346	261. 1.380	262. 1.368	263. 1.172	264. 1.172	265. 1.297	266. 1.297	267. 1.332	268. 1.370	269. 1.346	270. 1.380	271. 1.368	272. 1.172	273. 1.172	274. 1.297	275. 1.297	276. 1.332	277. 1.370	278. 1.346	279. 1.380	280. 1.368	281. 1.172	282. 1.172	283. 1.297	284. 1.297	285. 1.332	286. 1.370	287. 1.346	288. 1.380	289. 1.368	290. 1.172	291. 1.172	292. 1.297	293. 1.297	294. 1.332	295. 1.370	296. 1.346	297. 1.380	298. 1.368	299. 1.172	300. 1.172	301. 1.297	302. 1.297	303. 1.332	304. 1.370	305. 1.346	306. 1.380	307. 1.368	308. 1.172	309. 1.172	310. 1.297	311. 1.297	312. 1.332	313. 1.370	314. 1.346	315. 1.380	316. 1.368	317. 1.172	318. 1.172	319. 1.297	320. 1.297	321. 1.332	322. 1.370	323. 1.346	324. 1.380	325. 1.368	326. 1.172	327. 1.172	328. 1.297	329. 1.297	330. 1.332	331. 1.370	332. 1.346	333. 1.380	334. 1.368	335. 1.172	336. 1.172	337. 1.297	338. 1.297	339. 1.332	340. 1.370	341. 1.346	342. 1.380	343. 1.368	344. 1.172	345. 1.172	346. 1.297	347. 1.297	348. 1.332	349. 1.370	350. 1.346	351. 1.380	352. 1.368	353. 1.172	354. 1.172	355. 1.297	356. 1.297	357. 1.332	358. 1.370	359. 1.346	360. 1.380	361. 1.368	362. 1.172	363. 1.172	364. 1.297	365. 1.297	366. 1.332	367. 1.370	368. 1.346	369. 1.380	370. 1.368	371. 1.172	372. 1.172	373. 1.297	374. 1.297	375. 1.332	376. 1.370	377. 1.346	378. 1.380	379. 1.368	380. 1.172	381. 1.172	382. 1.297	383. 1.297	384. 1.332	385. 1.370	386. 1.346	387. 1.380	388. 1.368	389. 1.172	390. 1.172	391. 1.297	392. 1.297	393. 1.332	394. 1.370	395. 1.346	396. 1.380	397. 1.368	398. 1.172	399. 1.172	400. 1.297	401. 1.297	402. 1.332	403. 1.370	404. 1.346	405. 1.380	406. 1.368	407. 1.172	408. 1.172	409. 1.297	410. 1.297	411. 1.332	412. 1.370	413. 1.346	414. 1.380	415. 1.368	416. 1.172	417. 1.172	418. 1.297	419. 1.297	420. 1.332	421. 1.370	422. 1.346	423. 1.380	424. 1.368	425. 1.172	426. 1.172	427. 1.297	428. 1.297	429. 1.332	430. 1.370	431. 1.346	432. 1.380	433. 1.368	434. 1.172	435. 1.172	436. 1.297	437. 1.297	438. 1.332	439. 1.370	440. 1.346	441. 1.380	442. 1.368	443. 1.172	444. 1.172	445. 1.297	446. 1.297	447. 1.332	448. 1.370	449. 1.346	450. 1.380	451. 1.368	452. 1.172	453. 1.172	454. 1.297	455. 1.297	456. 1.332	457. 1.370	458. 1.346	459. 1.380	460. 1.368	461. 1.172	462. 1.172	463. 1.297	464. 1.297	465. 1.332	466. 1.370	467. 1.346	468. 1.380	469. 1.368	470. 1.172	471. 1.172	472. 1.297	473. 1.297	474. 1.332	475. 1.370	476. 1.346	477. 1.380	478. 1.368	479. 1.172	480. 1.172	481. 1.297	482. 1.297	483. 1.332	484. 1.370	485. 1.346	486. 1.380	487. 1.368	488. 1.172	489. 1.172	490. 1.297	491. 1.297	492. 1.332	493. 1.370	494. 1.346	495. 1.380	496. 1.368	497. 1.172	498. 1.172	499. 1.297	500. 1.297	501. 1.332	502. 1.370	503. 1.346	504. 1.380	505. 1.368	506. 1.172	507. 1.172	508. 1.297	509. 1.297	510. 1.332	511. 1.370	512. 1.346	513. 1.380	514. 1.368	515. 1.172	516. 1.172	517. 1.297	518. 1.297	519. 1.332	520. 1.370	521. 1.346	522. 1.380	523. 1.368	524. 1.172	525. 1.172	526. 1.297	527. 1.297	528. 1.332	529. 1.370	530. 1.346	531. 1.380	532. 1.368	533. 1.172	534. 1.172	535. 1.297	536. 1.297	537. 1.332	538. 1.370	539. 1.346	540. 1.380	541. 1.368	542. 1.172	543. 1.172	544. 1.297	545. 1.297	546. 1.332	547. 1.370	548. 1.346	549. 1.380	550. 1.368	551. 1.172	552. 1.172	553. 1.297	554. 1.297	555. 1.332	556. 1.370	557. 1.346	558. 1.380	559. 1.368	560. 1.172	561. 1.172	562. 1.297	563. 1.297	564. 1.332	565. 1.370	566. 1.346	567. 1.380	568. 1.368	569. 1.172	570. 1.172	571. 1.297	572. 1.297	573. 1.332	574. 1.370	575. 1.346	576. 1.380	577. 1.368	578. 1.172	579. 1.172	580. 1.297	581. 1.297	582. 1.332	583. 1.370	584. 1.346	585. 1.380	586. 1.368	587. 1.172	588. 1.172	589. 1.297	590. 1.297	591. 1.332	592. 1.370	593. 1.346	594. 1.380	595. 1.368	596. 1.172	597. 1.172	598. 1.297	599. 1.297	600. 1.332	601. 1.370	602. 1.346	603. 1.380	604. 1.368	605. 1.172	606. 1.172	607. 1.297	608. 1.297	609. 1.332	610. 1.370	611. 1.346	612. 1.380	613. 1.368	614. 1.172	615. 1.172	616. 1.297	617. 1.297	618. 1.332	619. 1.370	620. 1.346	621. 1.380	622. 1.368	623. 1.172	624. 1.172	625. 1.297	626. 1.297	627. 1.332	628. 1.370	629. 1.346	630. 1.380	631. 1.368	632. 1.172	633. 1.172	634. 1.297	635. 1.297	636. 1.332	637. 1.370	638. 1.346	639. 1.380	640. 1.368	641. 1.172	642. 1.172	643. 1.297	644. 1.297	645. 1.332	646. 1.370	647. 1.346	648. 1.380	649. 1.368	650. 1.172	651. 1.172	652. 1.297	653. 1.297	654. 1.332	655. 1.370	656. 1.346	657. 1.380	658. 1.368	659. 1.172	660. 1.172	661. 1.297	662. 1.297	663. 1.332	664. 1.370	665. 1.346	666. 1.380	667. 1.368	668. 1.172	669. 1.172	670. 1.297	671. 1.297	672. 1.332	673. 1.370	674. 1.346	675. 1.380	676. 1.368	677. 1.172	678. 1.172	679. 1.297	680. 1.297	681. 1.332	682. 1.370	683. 1.346	684. 1.380	685. 1.368	686. 1.172	687. 1.172	688. 1.297	689. 1.297	690. 1.332	691. 1.370	692. 1.346	693. 1.380	694. 1.368	695. 1.172	696. 1.172	697. 1.297	698. 1.297	699. 1.332	700. 1.370	701. 1.346	702. 1.380	703. 1.368	704. 1.172	705. 1.172	706. 1.297	707. 1.297	708. 1.332	709. 1.370	710. 1.346	711. 1.380	712. 1.368	713. 1.172	714. 1.172	715. 1.297	716. 1.297	717. 1.332	718. 1.370	719. 1.346	720. 1.380	721. 1.368	722. 1.172	723. 1.172	724. 1.297	725. 1.297	726. 1.332	727. 1.370	728. 1.346	729. 1.380	730. 1.368	731. 1.172	732. 1.1

## ENGINEERING PROPERTIES

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MAILED IN

1. SAMPLE NO.	6	7. TYPE COVER
2. DATE TESTED	10/10/68	8. TESTED BY
3. BAYER NO.		9. COAL PERCENTAGE (%)
4. LENGTH		10. TESTED ON
5. MAXIMUM DEPTH IN CORE (cm)		11. TEST UNIT WEIGHT (g/cm <sup>3</sup> )
12. SPECIFIC GRAVITY OF SOLIDS		13. WATER CONTENT (% by weight)
14. Voids Ratio		15. SATURATED Voids RATIO
16. DENSITY (g/cm <sup>3</sup> )		17. DENSITY (g/cm <sup>3</sup> )
18. PLASTIC LIMIT		19. PLASTICITY INDEX
20. CONSISTENCY INDEX		21. COMPRESSIVE STRENGTH (kg/cm <sup>2</sup> )
22. COHESION (kg/cm <sup>2</sup> )	0.00	23. SENSITIVITY
23. CONSTITUTION		24. ANGLES OF FRICTION (°)
24. ANGLES OF PLASTICITY		25. MOISTURE (%)
26. TESTS (S)		27. REMARKS

Core No. 6 taken from bottom part of bank. Consists of fine sand, silt, clay, fine gravel and some coarse sand. The sample is

DATE TESTED

OCT 10 1968

TEST UNIT WEIGHT

9.62

SPECIFIC GRAVITY OF SOLIDS

1.310

WATER CONTENT (%)

1.297

Voids Ratio

1.266

SATURATED Voids RATIO

1.332

DENSITY (g/cm<sup>3</sup>)

1.370

PLASTIC LIMIT

1.390

CONSISTENCY INDEX

1.368

COHESION (kg/cm<sup>2</sup>)

2.451

TESTS (S)

2.712

MOISTURE (%)

2.498

TEST UNIT WEIGHT

2.452

TESTS (S)

1.53.0

TEST UNIT WEIGHT

1.42.4

TESTS (S)

1.42.6

TEST UNIT WEIGHT

1.42.8

TESTS (S)

1.42.8

**CORE ANALYSIS SUMMARY SHEET**  
**ENGINEERING PROPERTIES**

ANALYST # NCEL - Pt. Hueneme

NAVOCEANO-DE-116771B-1 (Rev. 1-63)

DATE 25 April 1963

1. CRUISE NO. Project D-5		4. SAMPLE NO. BS-7		7. TYPE CORE Kullenberg, gravity	
2. LATITUDE 34 ° 42 '	•	5. DATE TAKEN (Day, month, year)	20/11/62	8. CORE LENGTH (cm)	178
3. LONGITUDE 121 ° 57.3 '	•	6. WATER DEPTH (m)	3930	9. CORE PENETRATION (cm)	Not recorded
10. SUBSAMPLE DEPTH IN CORE (cm)	00-76	15.2-22.9	35.38.1	45.75.33.61.0-68.8	76.2-83.8 91.4-99.1 107-114 122-130 137-145 152-160
11. WET UNIT WEIGHT (g/cm³)	1.271	1.302	1.297	1.356	1.367 1.389 1.355 1.385 1.359
12. SPECIFIC GRAVITY OF SOLIDS	2.741	2.538	2.687	2.624	2.674 2.688 2.651 2.681 2.595 2.652
13. WATER CONTENT (% dry weight)	202.0	180.7	159.5	143.5	143.0 139.4 134.8 133.9 140.0 134.4 138.3
14. VOID RATIO	5.494	4.464	4.376	3.717	3.785 3.504 3.608 3.464 3.739 3.386 3.651
15. SATURATED VOID RATIO	5.537	4.586	4.286	3.765	3.824 3.584 3.623 3.550 3.753 3.488 3.668
16. POROSITY (%)	84.6	81.7	81.4	78.0	79.1 77.8 78.3 77.6 78.9 77.2 78.5
17. LIQUID LIMIT	130.5	—	114.5	—	105.8 — 103.5 — 91.5 — 93.6
18. PLASTIC LIMIT	—	—	—	—	— — — — — —
19. PLASTICITY INDEX	—	—	—	—	— — — — — —
20. LIQUIDITY INDEX	—	—	—	—	— — — — — —
21. COMPRESSION INDEX FROM LL	1.09	—	0.94	—	0.86 — 0.85 — 0.74 — 0.76
22. COMPRESSIVE STRENGTH NATURAL (g/cm²)	—	—	—	—	— — — — — —
REMOULD (g/cm²)	—	—	—	—	— — — — — —
23. COHESION NATURAL (g/cm²)	11.7	15.5	19.7	22.8	22.4 30.4 31.6 20.7 16.7 22.8 13.4
REMOULD (g/cm²)	6.19	4.92	9.98	5.41	10.5 8.30 13.1 6.82 7.03 5.62 9.14
24. SENSITIVITY	1.9	3.2	2.0	4.2	2.1 3.7 2.4 3.0 2.4 4.1 1.5
25. ANGLE OF INTERNAL FRICTION (°)	—	—	—	—	— — — — — —
26. ACTIVITY	—	—	—	—	— — — — — —
27. MODULUS OF ELASTICITY	—	—	—	—	— — — — — —
28. SLUMP (")	—	—	—	—	— — — — — —
29. REMARKS	Original water retained in liner at top of core. Top of sample relatively soft, possibly a valid set of results. Some minor cracking and desiccation deeper in core. Abundant black organic mottling, strong hydrogen sulphide odor.				

**CORE ANALYSIS SUMMARY SHEET**  
**ENGINEERING PROPERTIES**

MANUFACTURED BY: DOW CORNING CORPORATION  
SAMPLE NO.: 7

MANUFACTURED BY:

1. SAMPLE NO.	7	1.1. IN VH SPHER.	1.2. IN VH SPHER.
2. VISCOSITY	1. OILY TACK (ML, SEC.)	1.3. IN VH SPHER.	1.4. IN VH SPHER.
3. CONSISTENCY	1.5. WATER GEL (%)	1.6. IN VH SPHER.	1.7. IN VH SPHER.
4. SENSITIVITY OF POLYMER	1.8. IN VH SPHER.	1.9. IN VH SPHER.	1.10. IN VH SPHER.
5. SPECIFIC GRAVITY OF SOLIDS	1.211	1.207	1.205
6. WATER CONTENT (% dry weight)	1.366	1.366	1.366
7. DRY CONTENT (% dry weight)	1.360	1.360	1.360
8. DENSITY	1.360	1.360	1.360
9. VOLUME RATIO	1.360	1.360	1.360
10. VOLE RATIO	1.360	1.360	1.360
11. SINTERED WEIGHT (%)	1.360	1.360	1.360
12. PLASTIC LIMIT	1.360	1.360	1.360
13. LIQUID LIMIT	1.360	1.360	1.360
14. CONSISTENCY INDEX	1.360	1.360	1.360
15. COHESION COEFF.	1.360	1.360	1.360
16. PLATE COEFF.	1.360	1.360	1.360
17. CONSTITUTION TEST	1.360	1.360	1.360
18. PLASTIC STATE	1.360	1.360	1.360
19. CONSISTENCY TEST	1.360	1.360	1.360
20. SENSITIVITY	1.360	1.360	1.360
21. ANGLE OF INTERNAL FRICTION (°)	1.360	1.360	1.360
22. ACTIVITY	1.360	1.360	1.360
23. MOODS OF ELASTICITY	1.360	1.360	1.360
24. STRENGTH	1.360	1.360	1.360
25. STIFFNESS	1.360	1.360	1.360

**CORE ANALYSIS SUMMARY SHEET**  
**ENGINEERING PROPERTIES**

ANALYZED BY NCEL - Pt. Hueneme  
DATE 29 April 1963

NAVOCANO-EP-31671B-8 (Rev. 1-63)

1. CRUISE NO.	Project D-5	4. SAMPLE NO.	BS-8	7. TYPE CORER	Kullenberg, gravity
2. LATITUDE	34 ° 36' 3 .	5. DATE TAKEN (Day, month, year)	21/11/62	8. CORE LENGTH (cm)	279
3. LONGITUDE	22 ° 22' .	6. WATER DEPTH (m)	3749	9. CORER PENETRATION (cm)	Not recorded
10. SUBSAMPLE DEPTH IN CORE (cm)	3.0-7.6	5.2-22.9	30.5-32.1	45.7-53.3	61.0-63.4
11. WET UNIT WEIGHT (g/cm³)	1.291	1.326	1.343	1.337	1.349
12. SPECIFIC GRAVITY OF SOLIDS	2.624	2.535	2.732	2.478	2.623
13. WATER CONTENT (% dry weight)	164.0	160.8	149.1	152.0	141.7
14. VOID RATIO	4.376	4.000	4.076	3.673	3.695
15. SATURATED VOID RATIO	4.303	4.076	4.073	3.767	3.717
16. POROSITY (%)	81.4	80.0	80.3	78.6	78.7
17. LIQUID LIMIT	124.9	—	106.6	—	108.5
18. PLASTIC LIMIT	—	—	—	—	—
19. PLASTICITY INDEX	—	—	—	—	—
20. LIQUIDITY INDEX	—	—	—	—	—
21. COMPRESSION INDEX FROM LL	1.04	—	0.87	—	0.89
22. COMPRESSIVE STRENGTH NATURAL (g/cm²)	—	—	—	—	—
REMOVED (g/cm²)	—	—	—	—	—
23. COHESION NATURAL (g/cm²)	18.0	18.8	18.4	29.9	17.9
REMOVED (g/cm²)	4.29	7.52	5.83	7.52	5.76
24. SENSITIVITY	4.2	2.5	3.2	4.0	3.1
25. ANGLE OF INTERNAL FRICTION (°)	—	—	—	—	—
26. ACTIVITY	—	—	—	—	—
27. MODULUS OF ELASTICITY	—	—	—	—	—
28. SLUMP (in)	—	—	—	—	—
29. REMARKS	Upper portion of sample shows indication of desiccation, although material still very soft. Vertical crack appears to run through much of central portion of core. Samples nonetheless have a high water content. Green and black mottling on upper part of core. Strong odor of hydrogen sulphide throughout.				

**CORE ANALYSIS SUMMARY SHEET**  
**ENGINEERING PROPERTIES**

MANUFACTURED NUMBER 10-1-01

Serial No.

2. Building No. 3

3. Location

10. Subsequent depth in core test

12. Net unit weight (lb/ft<sup>3</sup>)

13. Specific Gravity of soil

15. Unit weight (lb/ft<sup>3</sup>, wet)

16. Soil type

17. Standard Penetrometer

18. Density (lb/ft<sup>3</sup>)

19. Dry unit weight

20. Liquid limit

21. Plastic limit

22. Shrinkage limit

23. Compaction

24. Atterberg

25. Atterberg

26. Atterberg

27. Atterberg

28. Atterberg

29. Atterberg

30. Atterberg

31. Atterberg

32. Atterberg

33. Atterberg

34. Atterberg

35. Atterberg

36. Atterberg

37. Atterberg

38. Atterberg

39. Atterberg

40. Atterberg

41. Atterberg

42. Atterberg

43. Atterberg

44. Atterberg

45. Atterberg

46. Atterberg

ANALYST

DATUM

DATE

TESTER

ANALYST

DATUM

DATE

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**CORE ANALYSIS SUMMARY SHEET**  
**ENGINEERING PROPERTIES**

NCEI - Pt. Buenaventura  
ANALYZED BY \_\_\_\_\_

NAVOCANO-EP-31077B-B (Rev. 1-63)

DATE 29 April 1963

1. CRUISE NO.	Project D-5	4. SAMPLE NO.	BS-8 continued	7. TYPE CORE	Kullenberg, Gravity
2. LATITUDE	34° 36' 3"	5. DATE TAKEN (day, month, year)	21/11/62	8. CORE LENGTH (cm)	279
3. LONGITUDE	122° 22'	6. WATER DEPTH (m)	3749	9. CORE PENETRATION (cm)	Not recorded
10. SUBSAMPLE DEPTH IN CORE (cm)	(83-19)	10. SUBSAMPLE DEPTH IN CORE (cm)	(98-206)	11. WET UNIT WEIGHT (g/cm³)	
11. WET UNIT WEIGHT (g/cm³)		1.368	1.368	1.361	1.370 1.421
12. SPECIFIC GRAVITY OF SOLIDS		2.722	2.552	2.578	2.601 2.656 2.625
13. WATER CONTENT (% dry weight)		133.3	148.3	128.5	141.4 129.5 126.7
14. VOID RATIO		3.651	3.630	3.329	3.525 3.444 3.184
15. SATURATED VOID RATIO		3.628	3.785	3.313	3.678 3.440 3.326
16. POROSITY (%)		78.5	78.4	76.9	77.9 77.5 76.1
17. LIQUID LIMIT		103.4	—	99.8	— 95.2 —
18. PLASTIC LIMIT		—	—	—	—
19. PLASTICITY INDEX		—	—	—	—
20. LIQUIDITY INDEX		—	—	—	—
21. COMPRESSION INDEX FROM LL	0.84	—	0.81	—	0.77 —
22. COMPRESSIVE STRENGTH NATURAL REWOLD	(g/cm²)	—	—	—	—
23. COHESION NATURAL REWOLD	(g/cm²)	37.6	35.8	30.7	37.7 29.7 39.9
24. SENSITIVITY	(g/cm²)	6.40	7.52	6.05	7.52 5.13 9.28
25. ANGLE OF INTERNAL FRICTION (°)		5.9	4.8	5.1	5.0 5.8 4.3
26. ACTIVITY		—	—	—	—
27. MODULUS OF ELASTICITY		—	—	—	—
28. SLUML (S)		—	—	—	—
29. REMARKS		—	—	—	—

CORE AND VISIBLE SUMMARY SHEET  
ECONOMIZING PROPERTIES

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**CORE ANALYSIS SUMMARY SHEET**  
**ENGINEERING PROPERTIES**

ANALYST IN NC ELL - Pt. Huemene

DATE 30 April 1963

NAVOCLEANO-ESP-316778-8 (Rev. 1-63)

1. CRUISE NO.	Project D-5	4. SAMPLE NO.	BS-9	5. DATE TAKEN (Day, Month, Year)	21/11/62	6. WATER DEPTH (m)	3996	7. TYPE CORER Kullenberg, gravity
8. CORE LENGTH (cm)	0.0-7.6	5/2-22.9	30.5-36.1	45.7-53.3	61.0-68.4	76.2-83.8	91.4-99.1	8. CORE LENGTH (cm)
9. CORE PENETRATION (cm)	1.07-1.14	1.22-1.30	1.37-1.45	1.45-1.52	1.60-1.68	1.75-1.83	1.88-1.95	9. CORE PENETRATION (cm)
10. SUBSAMPLE DEPTH IN CORE (cm)	0.0-7.6	5/2-22.9	30.5-36.1	45.7-53.3	61.0-68.4	76.2-83.8	91.4-99.1	107-114
11. WET UNIT WEIGHT ( $\text{g/cm}^3$ )	1.289	1.321	1.315	1.347	1.355	1.349	1.337	1.291
12. SPECIFIC GRAVITY OF SOLIDS	2.790	2.516	2.768	2.521	2.780	2.481	2.742	2.618
13. WATER CONTENT (% dry weight)	161.3	169.7	169.9	148.2	144.1	151.7	151.5	131.6
14. VOID RATIO	4.650	4.128	4.682	3.651	4.000	3.630	4.155	3.695
15. SATURATED VOID RATIO	4.500	4.270	4.703	3.736	4.006	3.764	4.154	3.445
16. POROSITY (%)	82.3	80.5	82.4	78.5	80.0	78.4	80.6	78.7
17. LIQUID LIMIT	123.7	---	150.8	---	110.9	---	98.0	---
18. PLASTIC LIMIT	---	---	---	---	---	---	---	107.4
19. PLASTICITY INDEX	---	---	---	---	---	---	---	---
20. LIQUIDITY INDEX	---	---	---	---	---	---	---	---
21. COMPRESSION INDEX FROM LL	1.03	---	1.27	---	0.91	---	0.79	---
22. COMPRESSIVE STRENGTH NATURAL ( $\text{kg/cm}^2$ )	—	—	—	—	—	—	—	—
RENOULD ( $\text{kg/cm}^2$ )	—	—	—	—	—	—	—	—
23. COHESION NATURAL ( $\text{kg/cm}^2$ )	25.7	22.9	31.4	28.8	33.0	28.6	19.1	40.7
RENOULD ( $\text{kg/cm}^2$ )	6.40	5.62	5.48	6.82	6.12	5.06	4.29	10.5
24. SENSITIVITY	4.0	4.1	5.7	4.2	5.4	5.7	4.5	3.9
25. ANGLE OF INTERNAL FRICTION ( $\circ$ )	—	—	—	—	—	—	—	—
26. ACTIVITY	—	—	—	—	—	—	—	—
27. MODULUS OF ELASTICITY	—	—	—	—	—	—	—	—
28. SLUMP (S)	—	—	—	—	—	—	—	—
29. REMARKS	Upper portion of sample shows evidence of dessication. Vertical crack runs almost entire length of core. Black organic mottling in uppermost foot of sample. No evidence of a layering or banding in core.							



**CORE ANALYSIS SUMMARY SHEET**  
**ENGINEERING PROPERTIES**

ANALYZED BY NCEL - Pt. Hueneme

DATE 30 April 1963

NAVOCANO-DRP-310710-8 (Rev. 1-63)

1. CRUISE NO.	Project D-5	4. SAMPLE NO.	BS-9 continued	7. TYPE CORER	Kullenberg, gravity
2. LATITUDE	34° 38.5'	5. DATE TAKEN (DAY, MONTH, YEAR)	21/11/62	8. CORE LENGTH (cm)	231
3. LONGITUDE	122° 44.9'	6. WATER DEPTH (m)	3996	9. CORE PENETRATION (cm)	Not recorded
10. SUBSAMPLE-DEPTH IN CORE (cm)	(63-191/98-204/25-22/				
11. WET UNIT WEIGHT (g/cm³)	1.307	1.372	1.361		
12. SPECIFIC GRAVITY OF SOLIDS	2.801	2.449	2.872		
13. WATER CONTENT (% dry weight)	162.3	186.9	153.6		
14. VOID RATIO	4.618	4.128	4.348		
15. SATURATED VOID RATIO	4.546	4.577	4.411		
16. POROSITY (%)	82.2	80.5	81.3		
17. LIQUID LIMIT	78.5	—	88.6		
18. PLASTIC LIMIT	—	—	—		
19. PLASTICITY INDEX	—	—	—		
20. LIQUIDITY INDEX	—	—	—		
21. COMPRESSION INDEX FROM LL	0.62	—	0.71		
22. COMPRESSIVE STRENGTH NATURAL	(g/cm²)	—	—		
	REMOULD	(g/cm²)	—		
23. COHESION	NATURAL	(g/cm²)	23.7	28.5	22.1
	REMOULD	(g/cm²)	4.29	5.83	4.01
24. SENSITIVITY			5.5	4.9	5.5
25. ANGLE OF INTERNAL FRICTION (°)	—	—	—		
26. ACTIVITY	—	—	—		
27. MODULUS OF ELASTICITY	—	—	—		
28. SLUMP (S)	—	—	—		
29. REMARKS					

**CORE ANALYSIS SUMMARY SHEET**  
**ENGINEERING PROPERTIES**

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3. Enter birth time  
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**SPECIFIC QUANTITY OF METALS**

WATER CLOTHES - 1900-1901 BY ANTHONY BROWN

1910 1911 1912 1913 1914 1915 1916 1917 1918 1919 1920 1921 1922 1923 1924 1925 1926 1927 1928 1929 1930 1931 1932 1933 1934 1935 1936

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**CORE ANALYSIS SUMMARY SHEET**  
**ENGINEERING PROPERTIES**

ANALYZED BY NCEI - Pt. Huemene

NAVOCANO-EP-310778-1 (Rev. 1-43)

DATE 30 April 1963

	4. SAMPLE NO.	BS-10	5. DATE TAKEN (Day, month, year)	21/11/62	6. CORE LENGTH (cm)	208	7. TYPE CORER	Kullenberg, gravity
	8. CORE PENETRATION (cm)	9. Not recorded						
1. CRUISE NO.	Project D-5							
2. LATITUDE	34° 40'							
3. LONGITUDE	123° 00'							
4. SUBSAMPLE DEPTH IN CORE (cm)	0.0-7.6	5.2-22.9	30.5-38.1	45.7-52.3	61.0-68.6	72.2-83.8	91.4-99.1	107.1-114
5. WET UNIT WEIGHT (g/cm³)	1.277	1.304	1.361	1.398	1.375	1.389	1.356	1.358
6. SPECIFIC GRAVITY OF SOLIDS	2.789	2.592	2.725	2.594	2.743	2.594	2.748	2.607
7. WATER CONTENT (% dry weight)	155.5	138.7	196.9	135.8	138.2	148.3	127.3	55.5
8. VOID RATIO	4.587	3.739	4.952	3.367	3.762	3.651	3.608	1.538
9. SATURATED VOID RATIO	4.337	3.595	5.366	3.523	3.791	3.847	3.498	1.482
10. POROSITY (%)	82.1	78.9	83.2	77.1	79.0	78.5	78.3	60.6
11. LIQUID LIMIT	146.8	106.8	---	94.9	---	93.4	---	105.0
12. PLASTIC LIMIT	--	--	--	--	--	--	--	--
13. PLASTICITY INDEX	--	--	--	--	--	--	--	--
14. LIQUIDITY INDEX	--	--	--	--	--	--	--	--
15. COMPRESSION INDEX FROM LL	1.23	--	0.87	--	0.77	--	0.75	--
16. COMPRESSIVE STRENGTH NATURAL (g/cm²)	--	--	--	--	--	--	--	--
17. COMPRESSIVE STRENGTH REWOLD (g/cm²)	--	--	--	--	--	--	--	--
18. COHESION NATURAL (g/cm²)	46.4	69.2	34.0	45.0	31.6	29.9	27.9	34.8
19. COHESION REWOLD (g/cm²)	12.0	12.0	7.24	7.73	6.40	5.98	7.03	6.33
20. SENSITIVITY	3.9	5.8	4.7	5.8	4.9	5.0	4.0	5.5
21. ANGLE OF INTERNAL FRICTION (°)	--	--	--	--	--	--	--	--
22. ACTIVITY	--	--	--	--	--	--	--	--
23. MODULUS OF ELASTICITY	--	--	--	--	--	--	--	--
24. SLUMP (S)	--	--	--	--	--	--	--	--

29. REMARKS Upper portion of sample has desiccated appearance. Vertical crack through center of core down from the top. Bottom of sample also has appearance of drying out, and in addition shows some cracking. Central portion of core seems all right. Black organic mottling found throughout length of sample.



GEOLOGY LAB. FILE COPY

## CORE ANALYSIS SUMMARY SHEET ENGINEERING PROPERTIES

ANALYZED BY STILES

NAV8CEANOEXP-3147/18-8 (Rev. 1-63)

1. CRUISE NO.	D-5	SQS	4. SAMPLE NO.	BS-11	7. TYPE CORER	Ewing
2. LATITUDE	34° 54.5' N	"	5. DATE TAKEN (day, month, year)	23 Nov '62	8. CORE LENGTH (cm)	262.0
3. LONGITUDE	122° 30'	"	6. WATER DEPTH (m)	39.3	9. CORER PENETRATION (cm)	108-123
10. SUBSAMPLE DEPTH IN CORE (cm)	0-18	18-32	32-39	39-46	46-55	55-67
11. WET UNIT WEIGHT (g/cm <sup>3</sup> )	1.40	1.39	1.40	1.39	1.40	1.37
12. SPECIFIC GRAVITY OF SOLIDS	2.84					2.64
13. WATER CONTENT (% dry weight)	123.3					
14. VOID RATIO	3.21					3.50
15. SATURATED VOID RATIO	3.25					3.52
16. POROSITY (%)	76.2					77.8
17. LIQUID LIMIT						
18. PLASTIC LIMIT						
19. PLASTICITY INDEX						
20. LIQUIDITY INDEX						
21. COMPRESSION INDEX FROM LL						
22. COMPRESSIVE STRENGTH <sup>a</sup> NATURAL REMOULD	(g/cm <sup>2</sup> )	(g/cm <sup>2</sup> )				
23. COHESION NATURAL REMOULD	(g/cm <sup>2</sup> )	(g/cm <sup>2</sup> )	49.7	6.3	24.8	8.9
24. SENSITIVITY						3
25. ANGLE OF INTERNAL FRICTION (°)						
26. ACTIVITY						
27. MODULUS OF ELASTICITY						
28. SLUMP (")						
29. REMARKS						

**CORE ANALYSIS SUMMARY SHEET**  
**ENGINEERING PROPERTIES**

ANALYZED BY STILES

NAVOCEANO-EXP-3167/18-B (Rev. 1-63)

1. CRUISE NO.	D-5	4. SAMPLE NO.	B5-11	7. TYPE CORER	EWING
2. LATITUDE	39° 54.5' N	5. DATE TAKEN (day, month, year)	23 Nov 162	8. CORE LENGTH (cm)	262 cm.
3. LONGITUDE	122° 30' W	6. WATER DEPTH (m)	39 / 3	9. CORER PENETRATION (cm)	
10. SUBSAMPLE DEPTH IN CORE (cm)	123.5	7.33.5	133.5	102.5	192
11. WET UNIT WEIGHT ( $\text{g/cm}^3$ )	1.22	149.5	160.5	174.5	201
12. SPECIFIC GRAVITY OF SOLIDS				1.94	221
13. WATER CONTENT (% dry weight)	129.3	131.5		1.84	220
14. VOID RATIO				1.36	233
15. SATURATED VOID RATIO				2.60	240
16. POROSITY (%)					2.61
17. LIQUID LIMIT					
18. PLASTIC LIMIT					
19. PLASTICITY INDEX					
20. LIQUIDITY INDEX					
21. COMPRESSION INDEX FROM LL					
22. COMPRESSIVE STRENGTH NATURAL	( $\text{kg/cm}^2$ )				
REMOULD	( $\text{kg/cm}^2$ )				
23. COHESION NATURAL	( $\text{kg/cm}^2$ )				
REMOULD	( $\text{kg/cm}^2$ )				
24. SENSITIVITY					
25. ANGLE OF INTERNAL FRICTION ( $^\circ$ )					
26. ACTIVITY					
27. MODULUS OF ELASTICITY					
28. SLUMP (")					
29. REMARKS					

**CORE ANALYSIS SUMMARY SHEET**  
**ENGINEERING PROPERTIES**

ANALYZED BY STILES

NAVOCEANO-EXP-3167/18-8 (Rev. 1-63)

1. CRUISE NO. <u>D-5 SG5</u>	4. SAMPLE NO. <u>B5 - II</u>	7. TYPE CORER <u>Ewing</u>
2. LATITUDE <u>34° 34' S.</u>	5. DATE TAKEN (day, month, year) <u>23 Nov 62</u>	8. CORE LENGTH (cm) <u>262 cm</u>
3. LONGITUDE <u>122° 30' W.</u>	6. WATER DEPTH (m) <u>39.3</u>	9. CORER PENETRATION (cm)
10. SUBSAMPLE DEPTH IN CORE (cm)	<u>240.3</u>	<u>253.2</u>
11. WET UNIT WEIGHT ( $\text{g/cm}^3$ )		
12. SPECIFIC GRAVITY OF SOLIDS		
13. WATER CONTENT (% dry weight)	<u>122.3</u>	
14. VOID RATIO		
15. SATURATED VOID RATIO		
16. POROSITY (%)		
17. LIQUID LIMIT		
18. PLASTIC LIMIT		
19. PLASTICITY INDEX		
20. LIQUIDITY INDEX		
21. COMPRESSION INDEX FROM LL		
22. COMPRESSIVE STRENGTH NATURAL REMOULD	( $\text{g/cm}^2$ )	( $\text{g/cm}^2$ )
23. COHESION NATURAL REMOULD	( $\text{g/cm}^2$ )	( $\text{g/cm}^2$ )
24. SENSITIVITY		
25. ANGLE OF INTERNAL FRICTION ( $^\circ$ )		
26. ACTIVITY		
27. MODULUS OF ELASTICITY		
28. SLUMP (in)		
29. REMARKS		

**CORE ANALYSIS SUMMARY SHEET**  
**ENGINEERING PROPERTIES**

**GEOLOGY LOG, FILE COPY**  
ANALYZED BY STILES

NAVOCEANO-EXP-3167/1B-B (Rev. 1-63)

DATE MAY 63

1. CRUISE NO.	D-5	4. SAMPLE NO.	BS-12	7. TYPE CORER	KULLENBERG
2. LATITUDE	30° 38.3' N.	5. DATE TAKEN (day, month, year)	1 DEC. '62	8. CORE LENGTH (cm)	128.0
3. LONGITUDE	121° 0' 36.1' W.	6. WATER DEPTH (m)	310.9	9. CORER PENETRATION (cm)	-
10. SUBSAMPLE DEPTH IN CORE (cm)	0 - 7	7. 14	14 21	10. 26	26 33
11. WET UNIT WEIGHT ( $\text{g/cm}^3$ )			33 41	11. 51	51 60
12. SPECIFIC GRAVITY OF SOLIDS				12. 67	67 74
13. WATER CONTENT (% dry weight)	83.9	13. 87.9	85.6	14. 64.4	68.1
14. VOID RATIO				15. 2.22	65.3
15. SATURATED VOID RATIO				16. 2.33	54.8
16. POROSITY (%)				17. 68.9	50.7
17. LIQUID LIMIT				18. 1.44	56.9
18. PLASTIC LIMIT				19. 1.46	
19. PLASTICITY INDEX				20. 59.0	
20. LIQUIDITY INDEX				21. 1.44	
21. COMPRESSION INDEX FROM LL				22. 1.44	
22. COMPRESSIVE STRENGTH NATURAL	( $\text{kg/cm}^2$ )	22. 1.44		23. 1.44	
	REMOULD				
23. COHESION NATURAL	( $\text{kg/cm}^2$ )			24. 1.44	
	REMOULD				
24. SENSITIVITY				25. 1.44	
25. ANGLE OF INTERNAL FRICTION ( $^\circ$ )				26. 1.44	
26. ACTIVITY				27. 1.44	
27. MODULUS OF ELASTICITY				28. 1.44	
28. SLUMP (%)				29. REMARKS Manganese nodules at 0-29cm & 83-128 cm. Globigerina tests scattered throughout core. (Largest % are at 0-51cm, silty mud + 67-74cm, clay layer silt.) 99.5-128cm. silty clay	

**CORE ANALYSIS SUMMARY SHEET**  
**ENGINEERING PROPERTIES**

NAVOCEANO-EXP-3167/1B-B (Rev. 1-63)

ANALYZED BY STILES

DATE MAY 63

1. CRUISE NO.	D-5	4. SAMPLE NO.	BS-12	7. TYPE CORER	KULLENBERG
2. LATITUDE	30° 36.3' N	5. DATE TAKEN (Day, month, year)	1 Dec. '62	8. CORE LENGTH (cm)	128.0
3. LONGITUDE	121° 36.1' W	6. WATER DEPTH (m)	3.09	9. CORER PENETRATION (cm)	-
10. SUBSAMPLE DEPTH IN CORE (cm)	90.925	92.5 - 106.5	113 - 120	120 - 128	
11. WET UNIT WEIGHT ( $\text{g/cm}^3$ )	1.63				
12. SPECIFIC GRAVITY OF SOLIDS	2.71				
13. WATER CONTENT (% dry weight)	64.6	66.8	61.6	75.8	
14. VOID RATIO	1.77				
15. SATURATED VOID RATIO	1.81				
16. POROSITY (%)	6.39				
17. LIQUID LIMIT					
18. PLASTIC LIMIT					
19. PLASTICITY INDEX					
20. LIQUIDITY INDEX					
21. COMPRESSION INDEX FROM LL					
22. COMPRESSIVE STRENGTH <sup>a</sup>	NATURAL REMOULD	( $\text{g/cm}^2$ ) ( $\text{g/cm}^2$ )			
23. COHESION	NATURAL REMOULD	( $\text{g/cm}^2$ ) ( $\text{g/cm}^2$ )	122.3 38.3		
24. SENSITIVITY			3		
25. ANGLE OF INTERNAL FRICTION ( $^\circ$ )					
26. ACTIVITY					
27. MODULUS OF ELASTICITY					
28. SLUMP (in)					
29. REMARKS					

# GEOLOGY LAB, FILE COPY

ANALYZED BY S. TILES

## CORE ANALYSIS SUMMARY SHEET ENGINEERING PROPERTIES

NAVOCEANO-EXP-3167/1B-B (Rev. 1-63)

1. CRUISE NO.	D-5	4. SAMPLE NO.	BS-14	5. DATE TAKEN (day, month, year)	2 Dec. '62	6. CORE LENGTH (cm)	173.5
2. LATITUDE	30° 50.5' N.	7. SUBSAMPLE DEPTH IN CORE (cm)	404.2.	8. CORE PENETRATION (cm)	-	9. CORE PENETRATION (cm)	-
3. LONGITUDE	121° 25' W	10. SUBSAMPLE DEPTH IN CORE (cm)	0-8.5	10.5-15.5	15.5-23	23-30	30-35
11. WET UNIT WEIGHT ( $\text{g/cm}^3$ )		11. WET UNIT WEIGHT ( $\text{g/cm}^3$ )	1.42				
12. SPECIFIC GRAVITY OF SOLIDS		12. SPECIFIC GRAVITY OF SOLIDS	2.71				
13. WATER CONTENT (% dry weight)		13. WATER CONTENT (% dry weight)	115.0	119.0	130.3	117.2	121.7
14. VOID RATIO		14. VOID RATIO	3.10			3.09	
15. SATURATED VOID RATIO		15. SATURATED VOID RATIO	3.13			3.14	
16. POROSITY (%)		16. POROSITY (%)	75.6			75.6	
17. LIQUID LIMIT		17. LIQUID LIMIT					
18. PLASTIC LIMIT		18. PLASTIC LIMIT					
19. PLASTICITY INDEX		19. PLASTICITY INDEX					
20. LIQUIDITY INDEX		20. LIQUIDITY INDEX					
21. COMPRESSION INDEX FROM LL		21. COMPRESSION INDEX FROM LL					
22. COMPRESSIVE STRENGTH NATURAL	( $\text{kg/cm}^2$ )	22. COMPRESSIVE STRENGTH NATURAL	( $\text{kg/cm}^2$ )	REMOULD	( $\text{kg/cm}^2$ )		
23. COHESION NATURAL	( $\text{kg/cm}^2$ )	23. COHESION NATURAL	( $\text{kg/cm}^2$ )	REMOULD	( $\text{kg/cm}^2$ )	46.3	75.0
24. SENSITIVITY		24. SENSITIVITY	6			10.5	
25. ANGLE OF INTERNAL FRICTION (°)		25. ANGLE OF INTERNAL FRICTION (°)					
26. ACTIVITY		26. ACTIVITY					
27. MODULUS OF ELASTICITY		27. MODULUS OF ELASTICITY					
28. SLUMP (")		28. SLUMP (")					
29. REMARKS	O-173.5 CM. SILTY CLAY	29. REMARKS	O-173.5 CM. SILTY CLAY				

DATE MAY 63

**CORE ANALYSIS SUMMARY SHEET**  
**ENGINEERING PROPERTIES**

ANALYZED BY STILES

NAVOCANO-EXP-3167/18-B (Rev. 1-63)

1. CRUISE NO.	D-5	4. SAMPLE NO.	BS-14	7. TYPE CORER	KOLLENBERG
2. LATITUDE	30° 50.5' N.	5. DATE TAKEN (day, month, year)	2 DEC. '62	8. CORE LENGTH (cm)	173.5 CM
3. LONGITUDE	121° 25' W	6. WATER DEPTH (m)		9. CORER PENETRATION (cm)	
10. SUBSAMPLE DEPTH IN CORE (cm)	83.50	90.93	93.14	114.21	121.31
11. WET UNIT WEIGHT (g/cm <sup>3</sup> )	1.44			131.41	141.55
12. SPECIFIC GRAVITY OF SOLIDS				155.65	165.173.5
13. WATER CONTENT (% dry weight)	112.1	114.5	120.6	117.9	125.0
14. VOID RATIO			3.28		
15. SATURATED VOID RATIO			3.30		
16. POROSITY (%)			76.6		
17. LIQUID LIMIT					
18. PLASTIC LIMIT					
19. PLASTICITY INDEX					
20. LIQUIDITY INDEX					
21. COMPRESSION INDEX FROM LL					
22. COMPRESSIVE STRENGTH NATURAL	(g/cm <sup>2</sup> )	RELOAD	(g/cm <sup>2</sup> )		
23. COHESION NATURAL	(g/cm <sup>2</sup> )	RELOAD	(g/cm <sup>2</sup> )	374	
24. SENSITIVITY					
25. ANGLE OF INTERNAL FRICTION (°)					
26. ACTIVITY					
27. MODULUS OF ELASTICITY					
28. SLUMP (in)					
29. REMARKS					

**CORE ANALYSIS SUMMARY SHEET**  
**ENGINEERING PROPERTIES**

ANALYZED BY STILES

DATE MAY 63

NAVOCANO-EXP-3167/18-B (Rev. 1-63)

1. CRUISE NO.	D-5	4. SAMPLE NO.	BS-15	7. TYPE CORER	KULLENBERG
2. LATITUDE	31° 02' N	5. DATE TAKEN (Day, Month, Year)	2 DEC. '62	8. CORE LENGTH (cm)	162.0
3. LONGITUDE	121° 22.7' W	6. WATER DEPTH (m)	39.87	9. CORER PENETRATION (cm)	-
10. SUBSAMPLE DEPTH IN CORE (cm)	0 - 10	10 - 17	17 - 25	35 - 42	42 - 47
11. WET UNIT WEIGHT ( $\text{g/cm}^3$ )	1.40			1.39	
12. SPECIFIC GRAVITY OF SOLIDS	2.66			2.74	
13. WATER CONTENT (% dry weight)	120.3	126.8	135.4	131.1	131.9
14. VOID RATIO	3.30			3.57	
15. SATURATED VOID RATIO	3.37			3.61	
16. POROSITY (%)	76.7			78.1	
17. LIQUID LIMIT					
18. PLASTIC LIMIT					
19. PLASTICITY INDEX					
20. LIQUIDITY INDEX					
21. COMPRESSION INDEX FROM LL					
22. COMPRESSIVE STRENGTH <sup>a</sup>	NATURAL REMOULD	( $\text{kg/cm}^2$ )			
23. COHESION	NATURAL REMOULD	( $\text{kg/cm}^2$ )	57.3 8.01	58.2 9.7	72.4
24. SENSITIVITY			7	6	
25. ANGLE OF INTERNAL FRICTION ( $^\circ$ )					
26. ACTIVITY					
27. MODULUS OF ELASTICITY					
28. SLUMP (in)					
29. REMARKS	0 - 162 cm. SILTY CLAY				

**CORE ANALYSIS SUMMARY SHEET**  
**ENGINEERING PROPERTIES**

ANALYZED BY S. TILES

NAVOCANO-EXP-3167/18-B (Rev. 1-63)

DATE MAY 63

1. CRUISE NO.	D-5	4. SAMPLE NO.	BS-15	7. TYPE CORER	Kullenberger
2. LATITUDE	31° 0' 02" N	5. DATE TAKEN (day, month, year)	2 Dec. '62	8. CORE LENGTH (cm)	162.0
3. LONGITUDE	121° 0' 22.7" W	6. WATER DEPTH (m)	39.87	9. CORER PENETRATION (cm)	
10. SUBSAMPLE DEPTH IN CORE (cm)	105/115	115/125	125/135	135/145	145/162
11. WET UNIT WEIGHT (g/cm³)					
12. SPECIFIC GRAVITY OF SOLIDS					
13. WATER CONTENT (% dry weight)	124.0	115.7	120.5		
14. VOID RATIO					
15. SATURATED VOID RATIO					
16. POROSITY (%)					
17. LIQUID LIMIT					
18. PLASTIC LIMIT					
19. PLASTICITY INDEX					
20. LIQUIDITY INDEX					
21. COMPRESSION INDEX FROM LL					
22. COMPRESSIVE STRENGTH NATURAL REMOULD	(g/cm²)	(g/cm²)			
23. COHESION NATURAL REMOULD	(g/cm²)	(g/cm²)			
24. SENSITIVITY					
25. ANGLE OF INTERNAL FRICTION (°)					
26. ACTIVITY					
27. MODULUS OF ELASTICITY					
28. SLUMP (S)					
29. REMARKS					

**CORE ANALYSIS SUMMARY SHEET**  
**ENGINEERING PROPERTIES**

**GEOLOGY LAB, FILE COPY**

ANALYZED BY STILES

NAVOCEANO-EXP-3167/18-8 (Rev. 1-63)

DATE 9 MAY 63

1. CRUISE NO.	D-5	4. SAMPLE NO.	BS-16	7. TYPE CORER	KUHN-FEUBERG
2. LATITUDE	31° 11' N.	5. DATE TAKEN (day, month, year)	2 Dec. '62	8. CORE LENGTH (cm)	112.0
3. LONGITUDE	122° 22' 30" W	6. WATER DEPTH (m)	3712	9. CORE PENETRATION (cm)	
10. SUBSAMPLE DEPTH IN CORE (cm)	0 - 8	15 - 15	25 - 35	35 - 42	42 - 55
11. WET UNIT WEIGHT (g/cm³)		1.40		1.37	
12. SPECIFIC GRAVITY OF SOLIDS	2.69		2.71		
13. WATER CONTENT (% dry weight)	149.7	127.6	126.5	133.8	137.7
14. VOID RATIO		3.38		3.70	
15. SATURATED VOID RATIO		3.43		3.73	
16. POROSITY (%)		77.2		78.7	
17. LIQUID LIMIT					
18. PLASTIC LIMIT					
19. PLASTICITY INDEX					
20. LIQUIDITY INDEX					
21. COMPRESSION INDEX FROM LL					
22. COMPRESSIVE STRENGTH NATURAL	(g/cm²)				
REMOULD	(g/cm²)				
23. COHESION NATURAL	(g/cm²)	32.6		35.4	
REMOULD	(g/cm²)	2.7		8.4	
24. SENSITIVITY		4		4	
25. ANGLE OF INTERNAL FRICTION (°)					
26. ACTIVITY					
27. MODULUS OF ELASTICITY					
28. SLUMP (%)					
29. REMARKS	MANGANESE NODULES AT TOP 15-112. CM. SILTY CLAY				

**CORE ANALYSIS SUMMARY SHEET**  
**ENGINEERING PROPERTIES**

ANALYZED BY STILES

DATE MAY 63

NAVOCEANO-EXP-3167/18-8 (Rev. 1-63)

1. CRUISE NO. <b>D-5</b>	4. SAMPLE NO. <b>35-16</b>	5. DATE TAKEN (DAY, month, year) <b>2 DEC. '62</b>	6. CORE LENGTH (cm) <b>112.0</b>	7. TYPE CORER <b>KULLENBERG</b>
2. LATITUDE <b>31° 11.1' N.</b>	5. SUBSAMPLE DEPTH IN CORE (cm) <b>3712</b>	6. WATER DEPTH (m) <b>3712</b>	7. CORER PENETRATION (cm)	
3. LONGITUDE <b>122° 22.3' W.</b>	8. SUBSAMPLE DEPTH IN CORE (cm)	9. CORER PENETRATION (cm)		
10. SUBSAMPLE DEPTH IN CORE (cm)	10. SUBSAMPLE DEPTH IN CORE (cm)	11. WET UNIT WEIGHT ( $\text{g/cm}^3$ )	12. SPECIFIC GRAVITY OF SOLIDS	
11. WET UNIT WEIGHT ( $\text{g/cm}^3$ )	12. SPECIFIC GRAVITY OF SOLIDS	13. WATER CONTENT (% dry weight)	14. VOID RATIO	
13. WATER CONTENT (% dry weight)	13. WATER CONTENT (% dry weight)	14. VOID RATIO	15. SATURATED VOID RATIO	
14. VOID RATIO	14. VOID RATIO	15. SATURATED VOID RATIO	16. POROSITY (%)	
15. SATURATED VOID RATIO	15. SATURATED VOID RATIO	16. POROSITY (%)	17. LIQUID LIMIT	
16. POROSITY (%)	16. POROSITY (%)	17. LIQUID LIMIT	18. PLASTIC LIMIT	
17. LIQUID LIMIT	17. LIQUID LIMIT	18. PLASTIC LIMIT	19. PLASTICITY INDEX	
18. PLASTIC LIMIT	18. PLASTIC LIMIT	19. PLASTICITY INDEX	20. LIQUIDITY INDEX	
19. PLASTICITY INDEX	19. PLASTICITY INDEX	20. LIQUIDITY INDEX	21. COMPRESSION INDEX FROM LL	
20. LIQUIDITY INDEX	20. LIQUIDITY INDEX	21. COMPRESSION INDEX FROM LL	22. COMPRESSIVE STRENGTH NATURAL ( $\text{kg/cm}^2$ )	
21. COMPRESSION INDEX FROM LL	21. COMPRESSION INDEX FROM LL	22. COMPRESSIVE STRENGTH NATURAL ( $\text{kg/cm}^2$ )	23. REMOLD ( $\text{kg/cm}^2$ )	
22. COMPRESSIVE STRENGTH NATURAL ( $\text{kg/cm}^2$ )	22. COMPRESSIVE STRENGTH NATURAL ( $\text{kg/cm}^2$ )	23. REMOLD ( $\text{kg/cm}^2$ )	24. SENSITIVITY	
23. COHESION NATURAL ( $\text{kg/cm}^2$ )	23. COHESION NATURAL ( $\text{kg/cm}^2$ )	24. SENSITIVITY	25. ANGLE OF INTERNAL FRICTION ( $^\circ$ )	
24. COHESION REMOLD ( $\text{kg/cm}^2$ )	24. COHESION REMOLD ( $\text{kg/cm}^2$ )	25. ANGLE OF INTERNAL FRICTION ( $^\circ$ )	26. ACTIVITY	
25. ANGLE OF INTERNAL FRICTION ( $^\circ$ )	25. ANGLE OF INTERNAL FRICTION ( $^\circ$ )	26. ACTIVITY	27. MODULUS OF ELASTICITY	
26. ACTIVITY	26. ACTIVITY	27. MODULUS OF ELASTICITY	28. SLUMP (in.)	
27. MODULUS OF ELASTICITY	27. MODULUS OF ELASTICITY	28. SLUMP (in.)	29. REMARKS	
28. SLUMP (in.)	28. SLUMP (in.)	29. REMARKS		

**CORE ANALYSIS SUMMARY SHEET**  
**ENGINEERING PROPERTIES**

ANALYZED BY NCEL - Pt. Hueneke

NAVOCEANO-EXP-31077B-8 (Rev 1-63)

DATE 1 May 1963

1. CRUISE NO.	Project D-5	4. SAMPLE NO.	BS-17	7. TYPE	Kullenberg, gravity
2. LATITUDE	31 ° 26.1'	5. DATE TAKEN (Day, Month, Year)	3/12/62	8. CORE LENGTH (cm)	279
3. LONGITUDE	121 ° 27.9'	6. WATER DEPTH (m)	3859	9. CORER PENETRATION (cm)	Not recorded
10. SUBSAMPLE DEPTH IN CORE (cm)	0.0-76	5/2-229	30.5-38.1	45.7-53.2	60.0-68.4
11. WET UNIT WEIGHT (g/cm³)	1.401	1.359	1.391	1.364	1.379
12. SPECIFIC GRAVITY OF SOLIDS	2.912	2.671	2.920	2.604	2.910
13. WATER CONTENT (% dry weight)	118.0	121.6	112.7	123.3	122.0
14. VOID RATIO	3.525	3.348	3.464	3.255	3.695
15. SATURATED VOID RATIO	3.436	3.248	3.291	3.211	3.550
16. POROSITY (%)	77.9	77.0	77.6	76.5	78.7
17. LIQUID LIMIT	106.7	-	93.9	-	96.1
18. PLASTIC LIMIT	-	-	-	-	-
19. PLASTICITY INDEX	-	-	-	-	-
20. LIQUIDITY INDEX	-	-	-	-	-
21. COMPRESSION INDEX FROM LL	0.87	-	0.76	-	0.77
22. COMPRESSIVE STRENGTH NATURAL REMOULD	(g/cm²)	-	-	-	-
23. COHESION	NATURAL REMOULD	(g/cm²)	54.1 9.91	68.7 11.8	71.0 6.05
24. SENSITIVITY	5.5	5.8	11.7	9.9	10.0
25. ANGLE OF INTERNAL FRICTION (°)	-	-	-	-	-
26. ACTIVITY	-	-	-	-	-
27. MODULUS OF ELASTICITY	-	-	-	-	-
28. SWELL (%)	-	-	-	-	-

29. REMARKS  
 The entire core presents quite a uniform yellowish brown color. The zones of high calcium carbonate are not readily apparent by a color differential. This entire sample appears to have undergone a certain amount of desiccation, though water contents are high. Sample split lengthwise upon uncapping one end of the liner. Possibly not too much water loss however.

**CORE ANALYSIS SUMMARY SHEET**  
**ENGINEERING PROPERTIES**

ANALYZED BY NCEL - Pt. Hueneme

DATE 1 May 1963

NAVOCIANO-EXP-31077B-B (Rev 1-63)

1. CRUISE NO. Project D-5	4. SAMPLE NO. BS-17 continued	7. TYPE CORER Kullenberg, gravity
2. LATITUDE 31° 26.1'	5. DATE TAKEN (day, month, year) 3/12/62	8. CORE LENGTH (cm) 279
3. LONGITUDE 121° 27.9'	6. WATER DEPTH (m) 3859	9. CORER PENETRATION (cm) Not recorded
10. SUBSAMPLE DEPTH IN CORE (cm)	1033-191 / 98-206	213-221 / 229-236 / 244-257 / 259-267
11. WET UNIT WEIGHT (g/cm <sup>3</sup> )	1.360	1.351
12. SPECIFIC GRAVITY OF SOLIDS	2.863	2.645
13. WATER CONTENT (% dry weight)	136.7	163.7
14. VOID RATIO	3.975	4.155
15. SATURATED VOID RATIO	3.914	4.330
16. POROSITY (%)	79.9	80.6
17. LIQUID LIMIT	135.7	90.1
18. PLASTIC LIMIT	-	-
19. PLASTICITY INDEX	-	-
20. LIQUIDITY INDEX	-	-
21. COMPRESSION INDEX FROM LL	1.13	0.72
22. COMPRESSIVE STRENGTH NATURAL (g/cm <sup>2</sup> )	-	-
REMOULD (g/cm <sup>2</sup> )	-	-
23. COHESION NATURAL (g/cm <sup>2</sup> )	149.3	91.9
REMOULD (g/cm <sup>2</sup> )	28.8	28.8
24. SENSITIVITY	5.2	3.2
25. ANGLE OF INTERNAL FRICTION (°)	-	-
26. ACTIVITY	-	-
27. MODULUS OF ELASTICITY	-	-
28. SLUMP (cm)	-	-
29. REMARKS		

**CORE ANALYSIS SUMMARY SHEET**  
**ENGINEERING PROPERTIES**

ANALYST NCEL - Pt. Hueneme

NAVOCEANO-OP-3107/18 (Rev. 1-63)

DATE 2 May 1963

1. CRUISE NO. Project D-5	4. SAMPLE NO. BS-18	5. DATE TAKEN (DAY, Month, Year) 3/12/62	6. WATER DEPTH (m) 3850	7. CORE LENGTH (cm) 277	8. CORE PENETRATION (cm) Not recorded	9. CORE PENETRATION (cm) Not recorded
2. LATITUDE 31° 32.5'.	-	-	-	-	-	-
3. LONGITUDE 121° 29.1'.	-	-	-	-	-	-
10. SUBSAMPLE DEPTH IN CORE (cm)	0.0-7.6	15.2-22.9	30.5-38.1	45.7-53.3	61.0-68.6	76.2-83.8
11. WET UNIT WEIGHT ( $\text{kg}/\text{cm}^3$ )	1.328	1.354	1.367	1.425	1.395	1.375
12. SPECIFIC GRAVITY OF SOLIDS	2.902	2.445	2.834	2.632	2.899	2.752
13. WATER CONTENT (% dry weight)	125.5	127.5	127.2	131.1	115.5	133.7
14. VOID RATIO	3.926	2.521	3.717	3.274	3.484	3.673
15. SATURATED VOID RATIO	3.642	3.115	3.605	3.451	3.348	3.679
16. POROSITY (%)	79.7	75.7	78.8	76.6	77.7	78.6
17. LIQUID LIMIT	-	81.8	-	76.5	-	78.2
18. PLASTIC LIMIT	-	-	-	-	-	-
19. PLASTICITY INDEX	-	-	-	-	-	-
20. LIQUIDITY INDEX	-	-	-	-	-	-
21. COMPRESSION INDEX FROM LL	0.65	-	0.60	-	0.61	-
22. COMPRESSIVE STRENGTH NATURAL ( $\text{kg}/\text{cm}^2$ )	-	-	-	-	-	-
REMOULD ( $\text{kg}/\text{cm}^2$ )	-	-	-	-	-	-
23. COHESION NATURAL ( $\text{kg}/\text{cm}^2$ )	23.2	34.4	46.8	88.3	75.9	91.7
REMOULD ( $\text{kg}/\text{cm}^2$ )	4.92	3.87	6.47	5.98	8.44	11.2
24. SENSITIVITY	4.7	8.9	7.2	14.8	9.0	6.8
25. ANGLE OF INTERNAL FRICTION ( $^\circ$ )	-	-	-	-	-	-
26. ACTIVITY	-	-	-	-	-	-
27. MODULUS OF ELASTICITY	-	-	-	-	-	-
28. SLUMP (S)	-	-	-	-	-	-

29. REMARKS This sample appears to have undergone at least some desiccation subsequent to collection. There are horizontal cracks developed in the soil near the top part of the core. The bottom portion of the core has a very dry and crumbly character, though the water content is high. This zone corresponds with those rich in carbonate. The carbonate zone also exhibits higher shear strength.

**CORE ANALYSIS SUMMARY SHEET**  
**ENGINEERING PROPERTIES**

ANALYZED BY NCEL - Pt. Huenepe

NAVOCANO-EP-3107/1B-B (Rev. 1-63)

DATE 2 May 1963

1. CRUISE NO. Project D-5	4. SAMPLE NO. BS-18 continued	7. TYPE CORER Kullenberg, gravity
2. LATITUDE 31°32.5'	5. DATE TAKEN (DAY, Month, Year) 3/12/62	8. CORE LENGTH (cm) 277
3. LONGITUDE 121°29.1'	6. WATER DEPTH (m) 3850	9. CORE PENETRATION (cm) Not recorded
10. SUBSAMPLE DEPTH IN CORE (cm)	183-191	183-206 213-221 229-236 244-251
11. WET UNIT WEIGHT (g/cm³)	1.436	1.454 1.378 1.479 1.398
12. SPECIFIC GRAVITY OF SOLIDS	2.687	2.613 2.592 2.672 2.670
13. WATER CONTENT (% dry weight)	97.5	111.7 125.6 108.0 107.5
14. VOID RATIO	2.690	2.802 3.237 2.759 2.968
15. SATURATED VOID RATIO	2.620	2.919 3.256 2.886 2.870
16. POROSITY (%)	72.9	73.7 76.4 73.4 74.8
17. LIQUID LIMIT	99.5	- 100.6 - 105.7
18. PLASTIC LIMIT	-	- - -
19. PLASTICITY INDEX	-	- - -
20. LIQUIDITY INDEX	-	- - -
21. COMPRESSION INDEX FROM LL	0.81	- 0.82 - 0.86
22. COMPRESSIVE STRENGTH NATURAL (g/cm²) REHOLD (g/cm²)	-	- - -
23. COHESION NATURAL (g/cm²) 374.7 251.3 277.7 329.4 328.7 REHOLD (g/cm²) 115.3 42.9 96.7 145.9 107.2	-	- - -
24. SENSITIVITY	3.2	5.9 2.9 2.3 3.1
25. ANGLE OF INTERNAL FRICTION (°)	-	- - -
26. ACTIVITY	-	- - -
27. MODULUS OF ELASTICITY	-	- - -
28. SLUMP (cm)	-	- - -
29. REMARKS		

**CORE ANALYSIS SUMMARY SHEET**  
**ENGINEERING PROPERTIES**

ANALYZED BY NCEL - Pt. Hueneme

DATE 3 May 1963

NAVOCANO-DPA-9102708-1 (Rev 1-63)

	4. SAMPLE NO.	BS-19	5. DATE TAKEN (Day, month, year)	4/12/62	6. WATER DEPTH (m)	38.35	7. TYPE CORER	Kullenberg, gravity	8. CORE LENGTH (cm)	152	9. CORE PENETRATION (cm)	Not recorded
1. CRUISE NO. Project D-5												
2. LATITUDE 31° 34.1'												
3. LONGITUDE 121° 01'												
10. SUBSAMPLE DEPTH IN CORE (cm)	0.0-7.6	52.2-22.9	30.5-38.1	45.7-53.3	61.0-68.4	76.2-83.8	81.4-99.1	107.1-14	122-130	137-145		
11. WET UNIT WEIGHT (g/cm³)	1.385	1.367	1.364	1.335	1.452	1.519	1.495	1.568	1.587	1.580		
12. SPECIFIC GRAVITY OF SOLIDS	2.905	2.706	2.845	2.549	2.690	2.637	2.708	2.572	2.663	2.640		
13. WATER CONTENT (% dry weight)	121.7	116.9	125.5	144.8	105.2	96.3	84.4	82.8	68.7	76.5		
14. VOID RATIO	3.651	3.292	3.695	3.673	2.802	2.401	2.344	1.994	1.833	1.950		
15. SATURATED VOID RATIO	3.535	3.163	3.570	3.691	2.830	2.539	2.286	2.130	1.829	2.020		
16. POROSITY (%)	78.5	76.7	78.7	78.6	73.7	70.6	70.1	66.6	64.7	66.1		
17. LIQUID LIMIT	89.7	-	97.8	-	82.8	-	81.5	-	54.5	-		
18. PLASTIC LIMIT	-	-	-	-	-	-	-	-	-	-		
19. PLASTICITY INDEX	-	-	-	-	-	-	-	-	-	-		
20. LIQUIDITY INDEX	-	-	-	-	-	-	-	-	-	-		
21. COMPRESSION INDEX FROM LL	0.72	-	0.79	-	0.66	-	0.65	-	0.41			
22. COMPRESSIVE STRENGTH NATURAL REMOULD	(kg/cm²)	(kg/cm²)	-	-	-	-	-	-	-	-		
23. COHESION NATURAL REMOULD	(kg/cm²)	(kg/cm²)	44.6	54.3	41.8	60.5	264.3	334.3	379.6	307.6	298.8	195.1
24. SENSITIVITY	6.3	6.8	4.4	4.0	5.7	4.6	4.1	3.0	9.7	3.1		
25. ANGLE OF INTERNAL FRICTION (°)	-	-	-	-	-	-	-	-	-	-		
26. ACTIVITY	-	-	-	-	-	-	-	-	-	-		
27. MODULUS OF ELASTICITY	-	-	-	-	-	-	-	-	-	-		
28. SLUMP (S)	-	-	-	-	-	-	-	-	-	-		

29. REMARKS A vertical crack runs almost entire length of sample. Presumably this results from at least some desiccation during the storage period. In places the sample appears and acts very dry, though moisture contents are still relatively high. Shear strengths are also high. This zone corresponds to measurements of high carbonate.

**CORE ANALYSIS SUMMARY SHEET**  
**ENGINEERING PROPERTIES**

**GEOLOGY LAB. FILE COPY**

ANALYZED BY S. STILES

NAVOCANO-EXP-3167/1B-B (Rev. 1-63)

DATE MAY 63

1. CRUISE NO.	D-5	4. SAMPLE NO.	BS-20	7. TYPE CORER	KULLANBERG
2. LATITUDE	31° 20' N	5. DATE TAKEN (Day, month, year)	4 Dec. '62	8. CORE LENGTH (cm)	292.0
3. LONGITUDE	121° 01' W	6. WATER DEPTH (m)	38.22	9. CORER PENETRATION (cm)	-
10. SUBSAMPLE DEPTH IN CORE (cm)	0-10	10-17	17-27	27-35	35-42
11. WET UNIT WEIGHT (g/cm <sup>3</sup> )	1.41	1.41	1.33	1.33	1.36
12. SPECIFIC GRAVITY OF SOLIDS	2.70	2.70	2.66	2.66	2.69
13. WATER CONTENT (%) dry weight)	117.5	124.3	132.9	141.3	137.5
14. VOID RATIO	3.30	3.30	3.76	3.76	3.86
15. SATURATED VOID RATIO	3.35	3.35	3.66	3.66	3.92
16. POROSITY (%)	76.7	76.7	79.0	79.0	79.4
17. LIQUID LIMIT					
18. PLASTIC LIMIT					
19. PLASTICITY INDEX					
20. LIQUIDITY INDEX					
21. COMPRESSION INDEX FROM LL					
22. COMPRESSIVE STRENGTH NATURAL	(g/cm <sup>2</sup> )				
	REMOULD	(g/cm <sup>2</sup> )			
23. COHESION	NATURAL	(g/cm <sup>2</sup> )	96.6	72.4	66.7
	REMOULD	(g/cm <sup>2</sup> )	15.5	15.1	17.73
24. SENSITIVITY			6	5	9
25. ANGLE OF INTERNAL FRICTION (°)					
26. ACTIVITY					
27. MODULUS OF ELASTICITY					
28. SLUMP (%)					
29. REMARKS	0-284 cm. SILTY CLAY				

**CORE ANALYSIS SUMMARY SHEET**  
**ENGINEERING PROPERTIES**

ANALYZED BY STILES

NAVOCANO-EXP-3167/18-B (Rev. 1-63)

DATE MAY 63

1. CRUISE NO.	D-5	4. SAMPLE NO.	B5-20	7. TYPE CORER	Kullenberger
2. LATITUDE	31° 20' N	5. DATE TAKEN (day, month, year)	4 Dec. 62	8. CORE LENGTH (cm)	292.0
3. LONGITUDE	121° 01' W	6. WATER DEPTH (m)	3822	9. CORER PENETRATION (cm)	-
10. SUBSAMPLE DEPTH IN CORE (cm)	200-207	7. 207	217	225-232	240-257
11. WET UNIT WEIGHT (g/cm³)	1.40	8. 1.38	9. 2.73	10. 2.77	11. 2.84
12. SPECIFIC GRAVITY OF SOLIDS		12. 1.30.7	13. 134.5	14. 267-277	15. 284-292
13. WATER CONTENT (% dry weight)		13. 129.5	14. 137.0	16. 277	17. 284
14. VOID RATIO		15. 3.64	16. 144.0	18. 153.8	19. 134.3
15. SATURATED VOID RATIO		17. 3.67	18. 4.01	20. 4.14	21. 4.14
16. POROSITY (%)		19. 78.4	20. 80.0	22. 78.4	23. 80.0
17. LIQUID LIMIT		21. 78.4	22. 80.0	24. 78.4	25. 80.0
18. PLASTIC LIMIT		23. 78.4	24. 80.0	26. 78.4	27. 80.0
19. PLASTICITY INDEX		25. 78.4	26. 80.0	28. 78.4	29. 80.0
20. LIQUIDITY INDEX		27. 78.4	28. 80.0	30. 78.4	31. 80.0
21. COMPRESSION INDEX FROM LL		29. 78.4	30. 80.0	32. 78.4	33. 80.0
22. COMPRESSIVE STRENGTH NATURAL REMOULD (g/cm²)		31. 78.4	32. 80.0	34. 78.4	35. 80.0
23. COHESION NATURAL REMOULD (g/cm²)		33. 78.4	34. 80.0	36. 78.4	37. 80.0
24. SENSITIVITY		35. 78.4	36. 80.0	38. 78.4	39. 80.0
25. ANGLE OF INTERNAL FRICTION (°)		37. 78.4	38. 80.0	40. 78.4	41. 80.0
26. ACTIVITY		39. 78.4	40. 80.0	42. 78.4	43. 80.0
27. MODULUS OF ELASTICITY		41. 78.4	42. 80.0	44. 78.4	45. 80.0
28. SLUMP (cm)		43. 78.4	44. 80.0	46. 78.4	47. 80.0
29. REMARKS:		45. 78.4	46. 80.0	48. 78.4	49. 80.0

**CORE ANALYSIS SUMMARY SHEET**  
**ENGINEERING PROPERTIES**

ANALYZED BY STILES

DATE MAY 63

NAVOCENO-EXP-3167/18-B (Rev. 1-63)

1. CRUISE NO.	D-5	4. SAMPLE NO.	BS-20	7. TYPE CORER	KULLENBERG
2. LATITUDE	31° 20'	5. DATE TAKEN (Day, month, year)	4 Dec. '62	8. CORE LENGTH (cm)	292.0
3. LONGITUDE	121° 01'	6. WATER DEPTH (m)	382.2	9. CORER PENETRATION (cm)	
10. SUBSAMPLE DEPTH IN CORE (cm)	100	107	107-119	103-143	103-143
11. WET UNIT WEIGHT (g/cm³)		125	125-135	153-163	153-163
12. SPECIFIC GRAVITY OF SOLIDS		136			
13. WATER CONTENT (% dry weight)	123.4	135.0	139.9	148.6	134.8
14. VOID RATIO					
15. SATURATED VOID RATIO					
16. POROSITY (%)					
17. LIQUID LIMIT					
18. PLASTIC LIMIT					
19. PLASTICITY INDEX					
20. LIQUIDITY INDEX					
21. COMPRESSION INDEX FROM LL					
22. COMPRESSIVE STRENGTH <sup>a</sup>	NATURAL REMOULD	(g/cm²) (g/cm²)			
23. COHESION	NATURAL REMOULD	(g/cm²) (g/cm²)	77.3	82.3	18.3
24. SENSITIVITY					4
25. ANGLE OF INTERNAL FRICTION (°)					
26. ACTIVITY					
27. MODULUS OF ELASTICITY					
28. SLUMP (in)					
29. REMARKS					

**CORE ANALYSIS SUMMARY SHEET**  
**ENGINEERING PROPERTIES**

ANALYZED BY NCCL - Pt. Hueneke

NAVOCANDO-BP-3107/1B-8 (Rev 1-63)

DATE 6 May 1963

1. CRUISE NO. Project D-5	4. SAMPLE NO. BS-21	5. DATE TAKEN (day, month, year) 4/12/62	6. CORE LENGTH (cm) 315	7. TYPE CORE Kullenberg, gravity	8. CORE LENGTH (cm)	9. CORER PENETRATION (cm)	10. SUBSAMPLE DEPTH IN CORE (cm)	11. WET UNIT WEIGHT (g/cm <sup>3</sup> )	12. SPECIFIC GRAVITY OF SOLIDS	13. WATER CONTENT (% dry weight)	14. VOID RATIO	15. SATURATED VOID RATIO	16. POROSITY (%)	17. LIQUID LIMIT	18. PLASTIC LIMIT	19. PLASTICITY INDEX	20. LIQUIDITY INDEX	21. COMPRESSION INDEX FROM LL	22. COMPRESSIVE STRENGTH NATURAL (g/cm <sup>2</sup> )	23. COHESION NATURAL (g/cm <sup>2</sup> )	24. SENSITIVITY	25. ANGLE OF INTERNAL FRICTION (°)	26. ACTIVITY	27. MODULUS OF ELASTICITY	28. SLUMP (in)	10. SUBSAMPLE DEPTH IN CORE (cm)	11. WET UNIT WEIGHT (g/cm <sup>3</sup> )	12. SPECIFIC GRAVITY OF SOLIDS	13. WATER CONTENT (% dry weight)	14. VOID RATIO	15. SATURATED VOID RATIO	16. POROSITY (%)	17. LIQUID LIMIT	18. PLASTIC LIMIT	19. PLASTICITY INDEX	20. LIQUIDITY INDEX	21. COMPRESSION INDEX FROM LL	22. COMPRESSIVE STRENGTH NATURAL (g/cm <sup>2</sup> )	23. COHESION NATURAL (g/cm <sup>2</sup> )	24. SENSITIVITY	25. ANGLE OF INTERNAL FRICTION (°)	26. ACTIVITY	27. MODULUS OF ELASTICITY	28. SLUMP (in)																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
2. LATITUDE 31° 15.1'	-	5. DATE TAKEN (day, month, year) 4/12/62	6. CORE LENGTH (cm) 315	7. TYPE CORE Kullenberg, gravity	8. CORE LENGTH (cm)	9. CORER PENETRATION (cm)	10. SUBSAMPLE DEPTH IN CORE (cm)	11. WET UNIT WEIGHT (g/cm <sup>3</sup> )	12. SPECIFIC GRAVITY OF SOLIDS	13. WATER CONTENT (% dry weight)	14. VOID RATIO	15. SATURATED VOID RATIO	16. POROSITY (%)	17. LIQUID LIMIT	18. PLASTIC LIMIT	19. PLASTICITY INDEX	20. LIQUIDITY INDEX	21. COMPRESSION INDEX FROM LL	22. COMPRESSIVE STRENGTH NATURAL (g/cm <sup>2</sup> )	23. COHESION NATURAL (g/cm <sup>2</sup> )	24. SENSITIVITY	25. ANGLE OF INTERNAL FRICTION (°)	26. ACTIVITY	27. MODULUS OF ELASTICITY	28. SLUMP (in)	10. SUBSAMPLE DEPTH IN CORE (cm)	11. WET UNIT WEIGHT (g/cm <sup>3</sup> )	12. SPECIFIC GRAVITY OF SOLIDS	13. WATER CONTENT (% dry weight)	14. VOID RATIO	15. SATURATED VOID RATIO	16. POROSITY (%)	17. LIQUID LIMIT	18. PLASTIC LIMIT	19. PLASTICITY INDEX	20. LIQUIDITY INDEX	21. COMPRESSION INDEX FROM LL	22. COMPRESSIVE STRENGTH NATURAL (g/cm <sup>2</sup> )	23. COHESION NATURAL (g/cm <sup>2</sup> )	24. SENSITIVITY	25. ANGLE OF INTERNAL FRICTION (°)	26. ACTIVITY	27. MODULUS OF ELASTICITY	28. SLUMP (in)																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
2. LATITUDE 31° 15.1'	-	5. DATE TAKEN (day, month, year) 4/12/62	6. CORE LENGTH (cm) 315	7. TYPE CORE Kullenberg, gravity	8. CORE LENGTH (cm)	9. CORER PENETRATION (cm)	10. SUBSAMPLE DEPTH IN CORE (cm)	11. WET UNIT WEIGHT (g/cm <sup>3</sup> )	12. SPECIFIC GRAVITY OF SOLIDS	13. WATER CONTENT (% dry weight)	14. VOID RATIO	15. SATURATED VOID RATIO	16. POROSITY (%)	17. LIQUID LIMIT	18. PLASTIC LIMIT	19. PLASTICITY INDEX	20. LIQUIDITY INDEX	21. COMPRESSION INDEX FROM LL	22. COMPRESSIVE STRENGTH NATURAL (g/cm <sup>2</sup> )	23. COHESION NATURAL (g/cm <sup>2</sup> )	24. SENSITIVITY	25. ANGLE OF INTERNAL FRICTION (°)	26. ACTIVITY	27. MODULUS OF ELASTICITY	28. SLUMP (in)	10. SUBSAMPLE DEPTH IN CORE (cm)	11. WET UNIT WEIGHT (g/cm <sup>3</sup> )	12. SPECIFIC GRAVITY OF SOLIDS	13. WATER CONTENT (% dry weight)	14. VOID RATIO	15. SATURATED VOID RATIO	16. POROSITY (%)	17. LIQUID LIMIT	18. PLASTIC LIMIT	19. PLASTICITY INDEX	20. LIQUIDITY INDEX	21. COMPRESSION INDEX FROM LL	22. COMPRESSIVE STRENGTH NATURAL (g/cm <sup>2</sup> )	23. COHESION NATURAL (g/cm <sup>2</sup> )	24. SENSITIVITY	25. ANGLE OF INTERNAL FRICTION (°)	26. ACTIVITY	27. MODULUS OF ELASTICITY	28. SLUMP (in)																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
2. LONGITUDE 120° 41.2'	-	5. DATE TAKEN (day, month, year) 4/12/62	6. CORE LENGTH (cm) 315	7. TYPE CORE Kullenberg, gravity	8. CORE LENGTH (cm)	9. CORER PENETRATION (cm)	10. SUBSAMPLE DEPTH IN CORE (cm)	11. WET UNIT WEIGHT (g/cm <sup>3</sup> )	12. SPECIFIC GRAVITY OF SOLIDS	13. WATER CONTENT (% dry weight)	14. VOID RATIO	15. SATURATED VOID RATIO	16. POROSITY (%)	17. LIQUID LIMIT	18. PLASTIC LIMIT	19. PLASTICITY INDEX	20. LIQUIDITY INDEX	21. COMPRESSION INDEX FROM LL	22. COMPRESSIVE STRENGTH NATURAL (g/cm <sup>2</sup> )	23. COHESION NATURAL (g/cm <sup>2</sup> )	24. SENSITIVITY	25. ANGLE OF INTERNAL FRICTION (°)	26. ACTIVITY	27. MODULUS OF ELASTICITY	28. SLUMP (in)	10. SUBSAMPLE DEPTH IN CORE (cm)	11. WET UNIT WEIGHT (g/cm <sup>3</sup> )	12. SPECIFIC GRAVITY OF SOLIDS	13. WATER CONTENT (% dry weight)	14. VOID RATIO	15. SATURATED VOID RATIO	16. POROSITY (%)	17. LIQUID LIMIT	18. PLASTIC LIMIT	19. PLASTICITY INDEX	20. LIQUIDITY INDEX	21. COMPRESSION INDEX FROM LL	22. COMPRESSIVE STRENGTH NATURAL (g/cm <sup>2</sup> )	23. COHESION NATURAL (g/cm <sup>2</sup> )	24. SENSITIVITY	25. ANGLE OF INTERNAL FRICTION (°)	26. ACTIVITY	27. MODULUS OF ELASTICITY	28. SLUMP (in)																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
2. LONGITUDE 120° 41.2'	-	5. DATE TAKEN (day, month, year) 4/12/62	6. CORE LENGTH (cm) 315	7. TYPE CORE Kullenberg, gravity	8. CORE LENGTH (cm)	9. CORER PENETRATION (cm)	10. SUBSAMPLE DEPTH IN CORE (cm)	11. WET UNIT WEIGHT (g/cm <sup>3</sup> )	12. SPECIFIC GRAVITY OF SOLIDS	13. WATER CONTENT (% dry weight)	14. VOID RATIO	15. SATURATED VOID RATIO	16. POROSITY (%)	17. LIQUID LIMIT	18. PLASTIC LIMIT	19. PLASTICITY INDEX	20. LIQUIDITY INDEX	21. COMPRESSION INDEX FROM LL	22. COMPRESSIVE STRENGTH NATURAL (g/cm <sup>2</sup> )	23. COHESION NATURAL (g/cm <sup>2</sup> )	24. SENSITIVITY	25. ANGLE OF INTERNAL FRICTION (°)	26. ACTIVITY	27. MODULUS OF ELASTICITY	28. SLUMP (in)	10. SUBSAMPLE DEPTH IN CORE (cm)	11. WET UNIT WEIGHT (g/cm <sup>3</sup> )	12. SPECIFIC GRAVITY OF SOLIDS	13. WATER CONTENT (% dry weight)	14. VOID RATIO	15. SATURATED VOID RATIO	16. POROSITY (%)	17. LIQUID LIMIT	18. PLASTIC LIMIT	19. PLASTICITY INDEX	20. LIQUIDITY INDEX	21. COMPRESSION INDEX FROM LL	22. COMPRESSIVE STRENGTH NATURAL (g/cm <sup>2</sup> )	23. COHESION NATURAL (g/cm <sup>2</sup> )	24. SENSITIVITY	25. ANGLE OF INTERNAL FRICTION (°)	26. ACTIVITY	27. MODULUS OF ELASTICITY	28. SLUMP (in)																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
10. SUBSAMPLE DEPTH IN CORE (cm)	0.0-7.6	5.2-22.9	30.5-38.1	45.7-53.3	61.0-68.4	74.2-83.8	91.4-99.1	107-114	122-130	137-145	152-160	168-175	172-180	187-195	192-200	197-205	202-210	207-215	212-220	217-225	222-230	227-235	232-240	237-245	242-250	247-255	252-260	257-265	262-270	267-275	272-280	277-285	282-290	287-295	292-300	297-305	302-310	307-315	312-320	317-325	322-330	327-335	332-340	337-345	342-350	347-355	352-360	357-365	362-370	367-375	372-380	377-385	382-390	387-395	392-400	397-405	402-410	407-415	412-420	417-425	422-430	427-435	432-440	437-445	442-450	447-455	452-460	457-465	462-470	467-475	472-480	477-485	482-490	487-495	492-500	497-505	502-510	507-515	512-520	517-525	522-530	527-535	532-540	537-545	542-550	547-555	552-560	557-565	562-570	567-575	572-580	577-585	582-590	587-595	592-600	597-605	602-610	607-615	612-620	617-625	622-630	627-635	632-640	637-645	642-650	647-655	652-660	657-665	662-670	667-675	672-680	677-685	682-690	687-695	692-700	697-705	702-710	707-715	712-720	717-725	722-730	727-735	732-740	737-745	742-750	747-755	752-760	757-765	762-770	767-775	772-780	777-785	782-790	787-795	792-800	797-805	802-810	807-815	812-820	817-825	822-830	827-835	832-840	837-845	842-850	847-855	852-860	857-865	862-870	867-875	872-880	877-885	882-890	887-895	892-900	897-905	902-910	907-915	912-920	917-925	922-930	927-935	932-940	937-945	942-950	947-955	952-960	957-965	962-970	967-975	972-980	977-985	982-990	987-995	992-1000	1007-1015	1012-1020	1017-1025	1022-1030	1027-1035	1032-1040	1037-1045	1042-1050	1047-1055	1052-1060	1057-1065	1062-1070	1067-1075	1072-1080	1077-1085	1082-1090	1087-1095	1092-1100	1097-1105	1102-1110	1107-1115	1112-1120	1117-1125	1122-1130	1127-1135	1132-1140	1137-1145	1142-1150	1147-1155	1152-1160	1157-1165	1162-1170	1167-1175	1172-1180	1177-1185	1182-1190	1187-1195	1192-1200	1197-1205	1202-1210	1207-1215	1212-1220	1217-1225	1222-1230	1227-1235	1232-1240	1237-1245	1242-1250	1247-1255	1252-1260	1257-1265	1262-1270	1267-1275	1272-1280	1277-1285	1282-1290	1287-1295	1292-1300	1297-1305	1302-1310	1307-1315	1312-1320	1317-1325	1322-1330	1327-1335	1332-1340	1337-1345	1342-1350	1347-1355	1352-1360	1357-1365	1362-1370	1367-1375	1372-1380	1377-1385	1382-1390	1387-1395	1392-1400	1397-1405	1402-1410	1407-1415	1412-1420	1417-1425	1422-1430	1427-1435	1432-1440	1437-1445	1442-1450	1447-1455	1452-1460	1457-1465	1462-1470	1467-1475	1472-1480	1477-1485	1482-1490	1487-1495	1492-1500	1497-1505	1502-1510	1507-1515	1512-1520	1517-1525	1522-1530	1527-1535	1532-1540	1537-1545	1542-1550	1547-1555	1552-1560	1557-1565	1562-1570	1567-1575	1572-1580	1577-1585	1582-1590	1587-1595	1592-1600	1597-1605	1602-1610	1607-1615	1612-1620	1617-1625	1622-1630	1627-1635	1632-1640	1637-1645	1642-1650	1647-1655	1652-1660	1657-1665	1662-1670	1667-1675	1672-1680	1677-1685	1682-1690	1687-1695	1692-1700	1697-1705	1702-1710	1707-1715	1712-1720	1717-1725	1722-1730	1727-1735	1732-1740	1737-1745	1742-1750	1747-1755	1752-1760	1757-1765	1762-1770	1767-1775	1772-1780	1777-1785	1782-1790	1787-1795	1792-1800	1797-1805	1802-1810	1807-1815	1812-1820	1817-1825	1822-1830	1827-1835	1832-1840	1837-1845	1842-1850	1847-1855	1852-1860	1857-1865	1862-1870	1867-1875	1872-1880	1877-1885	1882-1890	1887-1895	1892-1900	1897-1905	1902-1910	1907-1915	1912-1920	1917-1925	1922-1930	1927-1935	1932-1940	1937-1945	1942-1950	1947-1955	1952-1960	1957-1965	1962-1970	1967-1975	1972-1980	1977-1985	1982-1990	1987-1995	1992-2000	1997-2005	2002-2010	2007-2015	2012-2020	2017-2025	2022-2030	2027-2035	2032-2040	2037-2045	2042-2050	2047-2055	2052-2060	2057-2065	2062-2070	2067-2075	2072-2080	2077-2085	2082-2090	2087-2095	2092-2100	2097-2105	2102-2110	2107-2115	2112-2120	2117-2125	2122-2130	2127-2135	2132-2140	2137-2145	2142-2150	2147-2155	2152-2160	2157-2165	2162-2170	2167-2175	2172-2180	2177-2185	2182-2190	2187-2195	2192-2200	2197-2205	2202-2210	2207-2215	2212-2220	2217-2225	2222-2230	2227-2235	2232-2240	2237-2245	2242-2250	2247-2255	2252-2260	2257-2265	2262-2270	2267-2275	2272-2280	2277-2285	2282-2290	2287-2295	2292-2300	2297-2305	2302-2310	2307-2315	2312-2320	2317-2325	2322-2330	2327-2335	2332-2340	2337-2345	2342-2350	2347-2355	2352-2360	2357-2365	2362-2370	2367-2375	2372-2380	2377-2385	2382-2390	2387-2395	2392-2400	2397-2405	2402-2410	2407-2415	2412-2420	2417-2425	2422-2430	2427-2435	2432-2440	2437-2445	2442-2450	2447-2455	2452-2460	2457-2465	2462-2470	2467-2475	2472-2480	2477-2485	2482-2490	2487-2495	2492-2500	2497-2505	2502-2510	2507-2515	2512-2520	2517-2525	2522-2530	2527-2535	2532-2540	2537-2545	2542-2550	2547-2555	2552-2560	2557-2565	2562-2570	2567-2575	2572-2580	2577-2585	2582-2590	2587-2595	2592-2600	2597-260

**CORE ANALYSIS SUMMARY SHEET**  
**ENGINEERING PROPERTIES**

ANALYZED IN NCEL - Pt. Hueneme

NAVOCLEANO-EP-310774-8 (Rev. 1-63)

DATE 6 May 1963

1. CRUISE NO.	Project D-5	4. SAMPLE NO.	BS-21 continued	7. TYPE CORER	Kullenberg, gravity
2. LATITUDE	31° 15.1'	5. DATE TAKEN (day, month, year)	4/12/62	8. CORE LENGTH (cm)	315
3. LONGITUDE	120° 41.2'	6. WATER DEPTH (m)	37/4	9. CORER PENETRATION (cm)	Not recorded
10. SUBSAMPLE DEPTH IN CORE (cm)	/83-19/ /98-20/	2/3-22/	229-236	244-251	259-267
11. WET UNIT WEIGHT ( $\text{g/cm}^3$ )	1.368	1.379	1.354	1.371	1.387
12. SPECIFIC GRAVITY OF SOLIDS	2.879	2.660	2.906	2.609	2.891
13. WATER CONTENT (% dry weight)	136.3	133.5	138.6	139.1	135.5
14. VOID RATIO	3.975	3.505	4.128	3.545	3.950
15. SATURATED VOID RATIO	3.924	3.551	4.028	3.629	3.917
16. POROSITY (%)	79.9	77.8	80.5	78.0	79.8
17. LIQUID LIMIT	96.6	-	107.3	-	107.4
18. PLASTIC LIMIT	-	-	-	-	-
19. PLASTICITY INDEX	-	-	-	-	-
20. LIQUIDITY INDEX	-	-	-	-	-
21. COMPRESSION INDEX FROM LL	0.78	-	0.87	-	0.87
22. COMPRESSIVE STRENGTH NATURAL REMOULD	[ $\text{kg/cm}^2$ ]	-	-	-	-
23. COHESION NATURAL REMOULD	[ $\text{kg/cm}^2$ ]	79.9	64.3	61.5	170.5
24. SENSITIVITY	6.7	6.8	5.5	9.7	8.1
25. ANGLE OF INTERNAL FRICTION (°)	-	-	-	-	-
26. ACTIVITY	-	-	-	-	-
27. MODULUS OF ELASTICITY	-	-	-	-	-
28. SLUMP (%)	-	-	-	-	-
29. REMARKS	-	-	-	-	-

**CORE ANALYSIS SUMMARY SHEET**  
**ENGINEERING PROPERTIES**

ANALYZED BY NCEL - Pt. Hueneke

DATE 6 May 1963

NAVOCENO-DR-31674-1 (Rev. 1-63)

1. CRUISE NO.	Project D-5	4. SAMPLE NO.	BS-22	7. TYPE CORE Kullenberg, gravity	
2. LATITUDE	31° 05' 8"	5. DATE TAKEN (DAY, month, year)	5/12/62	8. CORE LENGTH (cm)	300
3. LONGITUDE	120° 41' 7"	6. WATER DEPTH (m)	3740	9. CORE PENETRATION (cm) Not recorded	
10. SUBSAMPLE DEPTH IN CORE (cm)	0.0-7.6	15.2-22.9	30.5-32.1	45.7-53.3	6.0-42.2
11. WET UNIT WEIGHT ( $\text{g/cm}^3$ )	1.291	1.376	1.348	1.385	1.355
12. SPECIFIC GRAVITY OF SOLIDS	2.426	2.934	2.556	2.751	2.610
13. WATER CONTENT (% dry weight)	251.6	138.0	129.6	131.1	133.4
14. VOID RATIO	5.623	4.076	3.348	3.587	3.484
15. SATURATED VOID RATIO	6.104	4.049	3.313	3.607	3.482
16. POROSITY (%)	84.9	80.3	77.0	78.2	77.7
17. LIQUID LIMIT	98.8	-	97.7	-	100.6
18. PLASTIC LIMIT	-	-	-	-	-
19. PLASTICITY INDEX	-	-	-	-	-
20. LIQUIDITY INDEX	-	-	-	-	-
21. COMPRESSION INDEX FROM LL	0.80	-	0.79	-	0.82
22. COMPRESSIVE STRENGTH NATURAL REMOULD	( $\text{kg/cm}^2$ )	-	-	-	-
23. COHESION NATURAL REMOULD	( $\text{kg/cm}^2$ )	1.55	30.7	21.4	143.1
24. SENSITIVITY		0.562	6.19	5.98	45.7
25. ANGLE OF INTERNAL FRICTION (°)		2.8	5.0	3.6	3.1
26. ACTIVITY		-	-	-	-
27. MODULUS OF ELASTICITY		---	-	-	-
28. SLUMP (in)		-	-	-	-

29. REMARKS Core has uniform yellowish brown color throughout length. A vertical crack has formed in top foot of sample as well as in the lower half. Nonetheless water contents all appear high and all materials are soft and do not present conspicuous desiccation.

**CORE ANALYSIS SUMMARY SHEET**  
**ENGINEERING PROPERTIES**

ANALYZED BY NCEI - Pt. Bueneme

DATE 6 May 1963

NAVOCANO-EP-31071b-8 (Rev. 1-63)

	4. SAMPLE NO.	5. DATE TAKEN (Day, Month, Year)	6. CORE LENGTH (cm)	7. TYPE CORER Kullenberg, gravity	8. CORE PENETRATION (cm)	9. CORE PENETRATION (cm)	10. Not recorded
1. CRUISE NO. Project D-5	BS-22 continued						
2. LATITUDE 31° 05.8'	-						
3. LONGITUDE 120° 41.7'	-						
4. SUBSAMPLE DEPTH IN CORE (cm)	3740						
5. WET UNIT WEIGHT ( $\text{g/cm}^3$ )	1.386	1.388	1.404	1.364	1.385	1.333	
6. SPECIFIC GRAVITY OF SOLIDS	2.573	2.599	2.691	2.698	2.634	2.623	2.741
7. WATER CONTENT (% dry weight)	124.6	128.9	128.6	161.6	138.9	149.2	142.1
8. VOID RATIO	3.167	3.292	3.425	4.025	3.608	3.717	3.975
9. SATURATED VOID RATIO	3.206	3.350	3.461	4.360	3.659	3.914	3.895
10. POROSITY (%)	76.0	76.7	77.4	80.1	78.3	78.8	79.9
11. LIQUID LIMIT	85.6	-	94.0	-	99.8	-	113.9
12. PLASTIC LIMIT	-	-	-	-	-	-	-
13. PLASTICITY INDEX	-	-	-	-	-	-	-
14. LIQUIDITY INDEX	-	-	-	-	-	-	-
15. COMPRESSION INDEX FROM LL	0.68	-	0.76	-	0.81	-	0.94
16. COMPRESSIVE STRENGTH NATURAL ( $\text{kg/cm}^2$ )	-	-	-	-	-	-	-
17. REWOLD ( $\text{kg/cm}^2$ )	-	-	-	-	-	-	-
18. COHESION NATURAL ( $\text{kg/cm}^2$ )	75.5	60.1	61.2	70.3	54.6	56.2	58.3
19. REWOLD ( $\text{kg/cm}^2$ )	18.8	8.44	8.79	7.73	10.2	8.79	12.9
20. SENSITIVITY	4.0	7.1	7.0	9.1	5.4	6.4	4.5
21. ANGLE OF INTERNAL FRICTION (°)	-	-	-	-	-	-	-
22. ACTIVITY	-	-	-	-	-	-	-
23. MODULUS OF ELASTICITY	-	-	-	-	-	-	-
24. SLUMP (S)	-	-	-	-	-	-	-
25. REMARKS							

**CORE ANALYSIS SUMMARY SHEET**  
**ENGINEERING PROPERTIES**

**GEOLOGY LAB. FILE COPY**

ANALYZED BY STILES

DATE MAY 63

NAVOCEANO-EXP-3162/18-B (Rev. 1-63)

1. CRUISE NO.	D-5	4. SAMPLE NO.	B5-23	7. TYPE CORER	Kullenberger
2. LATITUDE	30°55'3" N	5. DATE TAKEN (day, month, year)	5 Dec. '62	8. CORE LENGTH (cm)	254.0
3. LONGITUDE	120°37'4" W	6. WATER DEPTH (m)	3712	9. CORER PENETRATION (cm)	-
10. SUBSAMPLE DEPTH IN CORE (cm)	0-10	10-17	17-27	27-35	35-42
11. WET UNIT WEIGHT (g/cm <sup>3</sup> )		1.36		1.38	
12. SPECIFIC GRAVITY OF SOLIDS		2.64			
13. WATER CONTENT (% dry weight)	152.2	147.7	144.1	132.5	151.2
14. VOID RATIO		3.72			
15. SATURATED VOID RATIO		3.90			
16. POROSITY (%)		78.8			
17. LIQUID LIMIT					3.29
18. PLASTIC LIMIT					76.5
19. PLASTICITY INDEX					
20. LIQUIDITY INDEX					
21. COMPRESSION INDEX FROM LL					
22. COMPRESSIVE STRENGTH NATURAL	(g/cm <sup>2</sup> )				
	REMOULD	(g/cm <sup>2</sup> )			
23. COHESION	NATURAL	(g/cm <sup>2</sup> )	12.8	38.3	42.9
	REMOULD	(g/cm <sup>2</sup> )	6.8	8.1	10.1
24. SENSITIVITY			2	5	4
25. ANGLE OF INTERNAL FRICTION (°)					
26. ACTIVITY					
27. MODULUS OF ELASTICITY					
28. SLUMP (%)					
29. REMARKS	0-170 cm. SILTY CLAY 238-243 cm. CLAYEY SILT (volcanic glass) 244-254 cm. SILTY CLAY				

**CORE ANALYSIS SUMMARY SHEET**  
**ENGINEERING PROPERTIES**

ANALYZED BY STILES

DATE MAY 63

NAVOCEANO-EXP-31(67)1B-B (Rev. 1-63)

1. CRUISE NO.	D-5	4. SAMPLE NO.	BS - 23	7. TYPE CORER	KULLENBERG
2. LATITUDE	30° 55.3' N	5. DATE TAKEN (day, month, year)	5 Dec. '62	8. CORE LENGTH (cm)	254.0
3. LONGITUDE	120° 37.4' W	6. WATER DEPTH (m)	3712	9. CORER PENETRATION (cm)	-
10. SUBSAMPLE DEPTH IN CORE (cm)	100-107	107-117	117-125	125-137	137-147
11. WET UNIT WEIGHT ( $\text{g/cm}^3$ )	1.39				
12. SPECIFIC GRAVITY OF SOLIDS	2.70				
13. WATER CONTENT (% dry weight)	125.3	132.7	132.6	134.0	141.2
14. VOID RATIO	3.38				3.72
15. SATURATED VOID RATIO	3.38				3.77
16. POROSITY (%)	77.2				78.8
17. LIQUID LIMIT					
18. PLASTIC LIMIT					
19. PLASTICITY INDEX					
20. LIQUIDITY INDEX					
21. COMPRESSION INDEX FROM LL					
22. COMPRESSIVE STRENGTH NATURAL REMOULD	( $\text{kg/cm}^2$ )	( $\text{kg/cm}^2$ )			
23. COHESION NATURAL REMOULD	( $\text{kg/cm}^2$ )	( $\text{kg/cm}^2$ )			124.4
24. SENSITIVITY	4				
25. ANGLE OF INTERNAL FRICTION ( $^\circ$ )					
26. ACTIVITY					
27. MODULUS OF ELASTICITY					
28. SLUMP (%)					
29. REMARKS					

**CORE ANALYSIS SUMMARY SHEET**  
**ENGINEERING PROPERTIES**

ANALYZED BY STILES

NAVOCANO-EXP-3167/1B-8 (Rev. 1-63)

DATE MAY 63

1. CRUISE NO.	D-5	4. SAMPLE NO.	BS- 23	7. TYPE CORER	KULLENBERG
2. LATITUDE	30° 55'.3' N	5. DATE TAKEN (Day, month, year)	5 DEC. '62	8. CORE LENGTH (cm)	254.0
3. LONGITUDE	120° 394' W	6. WATER DEPTH (m)	3712	9. CORE PENETRATION (cm)	
10. SUBSAMPLE DEPTH IN CORE (cm)	210.7	217.5	236.5	243.5	
11. WET UNIT WEIGHT (g/cm <sup>3</sup> )	1.37	1.50			
12. SPECIFIC GRAVITY OF SOLIDS					
13. WATER CONTENT (% dry weight)	130.3				
14. VOID RATIO					
15. SATURATED VOID RATIO					
16. POROSITY (%)					
17. LIQUID LIMIT					
18. PLASTIC LIMIT					
19. PLASTICITY INDEX					
20. LIQUIDITY INDEX					
21. COMPRESSION INDEX FROM LL					
22. COMPRESSIVE STRENGTH NATURAL	(g/cm <sup>2</sup> )	REMOULD	(g/cm <sup>2</sup> )		
23. COHESION	NATURAL	(g/cm <sup>2</sup> )	REMOULD	(g/cm <sup>2</sup> )	
24. SENSITIVITY					
25. ANGLE OF INTERNAL FRICTION (°)					
26. ACTIVITY					
27. MODULUS OF ELASTICITY					
28. SLUMP (S)					
29. REMARKS					

**CORE ANALYSIS SUMMARY SHEET**  
**ENGINEERING PROPERTIES**

**GEOLOGY LAB, FILE COPY**

ANALYZED BY S.T.L.

DATE JUNE 63

NAVOCEANO-EXP-3107/1B-B (Rev. 1-63)

1. CRUISE NO. <b>D-5 SGS</b>	4. SAMPLE NO. <b>B5 24</b>	5. DATE TAKEN (Day, month, year) <b>5 DEC '62</b>	6. CORE LENGTH (cm) <b>244.0 cm.</b>
2. LATITUDE <b>30° 45.7' N.</b>	5. WATER DEPTH (m) <b>376.7</b>	7. CORE PENETRATION (cm) <b>-</b>	
3. LONGITUDE <b>120° 32' W</b>	8. SPECIFIC GRAVITY OF SOLIDS	9. CORER PENETRATION (cm) <b>-</b>	
10. SUBSAMPLE DEPTH IN CORE (cm)	11. WET UNIT WEIGHT (g/cm³)	10. 0-10 10-17 17-27 27-35 35-42 42-56 56-67 67-74 74-84 84-94 94-100 100-107	12. SPECIFIC GRAVITY OF SOLIDS
13. WATER CONTENT (%) dry weight)	14. VOID RATIO	13. 152.6 132.8 128.3 132.1 127.1 135.2 125.1 125.8 146.3 129.4	14. VOID RATIO
15. SATURATED VOID RATIO	16. POROSITY (%)	15. 3.59 3.52 3.21	15. SATURATED VOID RATIO
17. LIQUID LIMIT	18. PLASTIC LIMIT	16. 77.9 76.2	16. POROSITY (%)
19. PLASTICITY INDEX	20. LIQUIDITY INDEX	17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100. 101. 102. 103. 104. 105. 106. 107. 108. 109. 110. 111. 112. 113. 114. 115. 116. 117. 118. 119. 120. 121. 122. 123. 124. 125. 126. 127. 128. 129. 130. 131. 132. 133. 134. 135. 136. 137. 138. 139. 140. 141. 142. 143. 144. 145. 146. 147. 148. 149. 150. 151. 152. 153. 154. 155. 156. 157. 158. 159. 160. 161. 162. 163. 164. 165. 166. 167. 168. 169. 170. 171. 172. 173. 174. 175. 176. 177. 178. 179. 180. 181. 182. 183. 184. 185. 186. 187. 188. 189. 190. 191. 192. 193. 194. 195. 196. 197. 198. 199. 200. 201. 202. 203. 204. 205. 206. 207. 208. 209. 210. 211. 212. 213. 214. 215. 216. 217. 218. 219. 220. 221. 222. 223. 224. 225. 226. 227. 228. 229. 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**CORE ANALYSIS SUMMARY SHEET**  
**ENGINEERING PROPERTIES**

ANALYZED BY STILES

DATE JUNE 63

NAVOCEANO-EXP-3167/1B-B (Rev. 1-63)

1. CRUISE NO. D-5 SGS	4. SAMPLE NO. BS - 24	7. TYPE CORER KULLENBERG
2. LATITUDE 30° 45.7' N.	5. DATE TAKEN (day, month, year) 5 Dec. '62	8. CORE LENGTH (cm) 244.0
3. LONGITUDE 120° 32' W	6. WATER DEPTH (m) 376.7	9. CORER PENETRATION (cm) -
10. SUBSAMPLE DEPTH IN CORE (cm)	107.2	122.52
11. WET UNIT WEIGHT (g/cm³)	1.32	1.39
12. SPECIFIC GRAVITY OF SOLIDS	2.73	
13. WATER CONTENT (% dry weight)	144.1	158.4
14. VOID RATIO	4.28	
15. SATURATED VOID RATIO	4.32	
16. POROSITY (%)	81.1	
17. LIQUID LIMIT		
18. PLASTIC LIMIT		
19. PLASTICITY INDEX		
20. LIQUIDITY INDEX		
21. COMPRESSION INDEX FROM LL		
22. COMPRESSIVE STRENGTH NATURAL (g/cm²) REMOULD (g/cm²)		97.7
23. COHESION NATURAL (g/cm²) REMOULD (g/cm²)	101.9	29.8
24. SENSITIVITY		3
25. ANGLE OF INTERNAL FRICTION (°)		
26. ACTIVITY		
27. MODULUS OF ELASTICITY		
28. SLUMP (in)		
29. REMARKS		

**CORE ANALYSIS SUMMARY SHEET**  
**ENGINEERING PROPERTIES**

ANALYZED BY STILES

DATE JUNE 63

NAVOCEANO-EXP-3167/18-8 (Rev. 1-63)

1. CRUISE NO.	D-5	SQS	4. SAMPLE NO.	BS - 24	7. TYPE CORER	KULLENBERG
2. LATITUDE	30° 45.7' N		5. DATE TAKEN (day, month, year)	6 Dec. 1962	8. CORE LENGTH (cm)	244.0 cm
3. LONGITUDE	120° 32' W		6. WATER DEPTH (m)	37.67	9. CORER PENETRATION (cm)	
10. SUBSAMPLE DEPTH IN CORE (cm)	227	237				
11. WET UNIT WEIGHT (g/cm <sup>3</sup> )		1.48				
12. SPECIFIC GRAVITY OF SOLIDS		2.68				
13. WATER CONTENT (% dry weight)	119.0	93.0				
14. VOID RATIO		2.50				
15. SATURATED VOID RATIO		2.49				
16. POROSITY (%)		71.4				
17. LIQUID LIMIT						
18. PLASTIC LIMIT						
19. PLASTICITY INDEX						
20. LIQUIDITY INDEX						
21. COMPRESSION INDEX FROM LL						
22. COMPRESSIVE STRENGTH <sup>a</sup>	NATURAL REMOULD	(g/cm <sup>2</sup> ) (g/cm <sup>2</sup> )				
23. COHESION	NATURAL REMOULD	(g/cm <sup>2</sup> ) (g/cm <sup>2</sup> )	156.0			
24. SENSITIVITY						
25. ANGLE OF INTERNAL FRICTION (°)						
26. ACTIVITY						
27. MODULUS OF ELASTICITY						
28. SLUMP (in)						
29. REMARKS						

**CORE ANALYSIS SUMMARY SHEET**  
**ENGINEERING PROPERTIES**

ANALYZED BY NCEL - Pt. Hueneme

DATE 7 May 1963

NAVOCLAND-EXP-3107714-8 (Rev. 1-63)

	4. SAMPLE NO.	BS-25	7. TYPE CORER	Kullenberg, gravity
	5. DATE TAKEN (D.Y., Month, year)	5/12/62	8. CORE LENGTH (cm)	305
	6. WATER DEPTH (m)	3822	9. CORER PENETRATION (cm)	Not recorded
10. SUBSAMPLE, DEPTH IN CORE (cm)	0.0-7.6	5/2-22.9	30.5-38.1	45.7-53.3
11. WET UNIT WEIGHT (g/cm <sup>3</sup> )	1.180	1.314	1.404	1.336
12. SPECIFIC GRAVITY OF SOLIDS	2.770	3.012	2.578	2.843
13. WATER CONTENT (% dry weight)	129.7	114.1	121.8	132.1
14. VOID RATIO	4.376	3.902	3.065	3.926
15. SATURATED VOID RATIO	3.593	3.437	3.140	3.756
16. POROSITY (%)	81.4	79.6	75.4	79.7
17. LIQUID LIMIT	93.9	-	95.7	-
18. PLASTIC LIMIT	-	-	-	-
19. PLASTICITY INDEX	-	-	-	-
20. LIQUIDITY INDEX	-	-	-	-
21. COMPRESSION INDEX FROM LL	0.76	-	0.77	-
22. COMPRESSIVE STRENGTH NATURAL REMOULD	(g/cm <sup>2</sup> )	(g/cm <sup>2</sup> )	-	-
23. COHESION NATURAL REMOULD	(g/cm <sup>2</sup> )	(g/cm <sup>2</sup> )	32.3	10.5
24. SENSITIVITY	3.1	3.4	6.2	6.3
25. ANGLE OF INTERNAL FRICTION (°)	-	-	-	-
26. ACTIVITY	-	-	-	-
27. MODULUS OF ELASTICITY	-	-	-	-
28. SLUMP (in)	-	-	-	-
29. REMARKS	Same yellowish brown color of samples throughout length of core. Water content consistently high. Vertical crack running through upper portion of core.			

**SCORE ANALYSIS SUMMARY SHEET**  
**ENGINEERING PROPERTIES**

ANALYSES NCEL - Pt. Hueneme

DATE 7 May 1963

NAVOCIANO-BR. 3162/1981 (Rev. 1-63)

**CORE ANALYSIS SUMMARY SHEET**  
**ENGINEERING PROPERTIES**

ANALYZED BY NCEL - Pt. Hueneme

DATE 8 May 1963

NAVOCEANO-BP-310718-8 (Rev. 1-63)

1. CRUISE NO.	Project D-5	4. SAMPLE NO.	BS-26	7. TYPE CORE	Kullenberg, gravity
2. LATITUDE	30° 43.3'	5. DATE TAKEN (DAY, month, year)	6/12/62	8. CORE LENGTH (cm)	290
3. LONGITUDE	120° 49.9'	6. WATER DEPTH (m)	3786	9. CORE PENETRATION (cm)	Not recorded
10. SUBSAMPLE DEPTH IN CORE (cm)	0.0-7.6 / 5.2-22.9	10.5-30.5-38.1 / 45.7-53.3-61.0-68.4	76.2-93.2-97.4-99.1	107-114 / 122-130	137-145 / 152-160 / 168-175
11. WET UNIT WEIGHT ( $\text{g/cm}^3$ )	1.352	1.394	1.373	1.380	1.371
12. SPECIFIC GRAVITY OF SOLIDS	2.684	2.794	2.692	119.2	2.597
13. WATER CONTENT (% dry weight)	157.3	131.9	137.5	2.789	154.8
14. VOID RATIO	4.102	3.651	3.651	3.425	3.831
15. SATURATED VOID RATIO	4.222	3.685	3.702	3.324	4.020
16. POROSITY (%)	80.4	78.5	74.8	77.4	79.3
17. LIQUID LIMIT	-	75.4	-	78.5	-
18. PLASTIC LIMIT	-	-	-	-	-
19. PLASTICITY INDEX	-	-	-	-	-
20. LIQUIDITY INDEX	-	-	-	-	-
21. COMPRESSION INDEX FROM LL	0.59	-	0.58	-	0.55
22. COMPRESSIVE STRENGTH NATURAL	$16/\text{cm}^2$	-	-	-	-
	$19/\text{cm}^2$	-	-	-	-
23. COHESION NATURAL	9.84	14.1	27.6	36.1	39.7
	$9/\text{cm}^2$	$2.32$	$3.16$	$4.71$	$7.52$
REMOULD	$16/\text{cm}^2$	-	-	-	-
	$19/\text{cm}^2$	-	-	-	-
24. SENSITIVITY	4.2	4.5	5.9	4.8	5.4
25. ANGLE OF INTERNAL FRICTION (°)	-	-	-	-	-
26. ACTIVITY	-	-	-	-	-
27. MODULUS OF ELASTICITY	-	-	-	-	-
28. SLUMP (%)	-	-	-	-	-

29. REMARKS Yellowish brown color extends uniformly over entire length of core. Water content seems low, but values obtained are consistently high. Some vertical cracking in upper two feet of material.

## CORE ANALYSIS SUMMARY SHEET ENGINEERING PROPERTIES

NAVOCACIONES 1167/[1-2]

ANALYZED BY NCEL - Pt. Hueneme

DATE 8 May 1963

1. CRUISE NO.	Project D-5	4. SAMPLE NO.	BS-26 continued	7. TYPE CORE	Kullenberg, gravity
2. LATITUDE	30° 43.3'	5. DATE TAKEN (day, month, year)	6/12/62	8. CORE LENGTH (cm)	290
3. LONGITUDE	120° 49.9'	6. WATER DEPTH (m)	3786	9. CORE PENETRATION (cm)	Not recorded
10. SUBSAMPLE DEPTH IN CORE (cm)	183-191	198-206	213-221	229-236	244-251
11. WET UNIT WEIGHT ( $\text{g/cm}^3$ )	1.396	1.402	1.377	1.424	1.378
12. SPECIFIC GRAVITY OF SOLIDS	2.803	2.750	2.783	2.838	2.725
13. WATER CONTENT (% dry weight)	138.5	127.7	135.2	134.5	129.4
14. VOID RATIO	3.785	3.464	3.762	3.673	3.525
15. SATURATED VOID RATIO	3.882	3.512	3.763	3.817	3.526
16. POROSITY (%)	79.1	77.6	79.0	78.6	77.9
17. LIQUID LIMIT	85.0	-	90.4	-	92.9
18. PLASTIC LIMIT	-	-	-	-	-
19. PLASTICITY INDEX	-	-	-	-	-
20. LIQUIDITY INDEX	-	-	-	-	-
21. COMPRESSION INDEX FROM LL	0.68	-	0.72	-	0.75
22. COMPRESSIVE STRENGTH NATURAL REMOULD	( $\text{kg/cm}^2$ )	( $\text{kg/cm}^2$ )	-	-	-
23. COHESION NATURAL REMOULD	( $\text{kg/cm}^2$ )	( $\text{kg/cm}^2$ )	-	-	-
24. SENSITIVITY	4.7	7.1	5.1	4.2	6.3
25. ANGLE OF INTERNAL FRICTION (°)	-	-	-	-	-
26. ACTIVITY	-	-	-	-	-
27. MODULUS OF ELASTICITY	-	-	-	-	-
28. SLUMP (in)	-	-	-	-	-
29. REMARKS					

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## CORE ANALYSIS SUMMARY SHEET ENGINEERING PROPERTIES

ANALYZED BY S. STILES

DATE JUNE 63

NAVOCEANO-EXP-3167/16-B (Rev. 1-63)

1. CRUISE NO.	D-5	4. SAMPLE NO.	BS - 27	7. TYPE CORER	KULLWICH
2. LATITUDE	30° 34.2' N.	5. DATE TAKEN (day, month, year)	8 DEC. '62	8. CORE LENGTH (cm)	240.0 cm.
3. LONGITUDE	121° 37.3' W	6. WATER DEPTH (m)	394.0	9. CORER PENETRATION (cm)	-
10. SUBSAMPLE DEPTH IN CORE (cm)	0-10	10-17	17-27	27-37	37-44
11. WET UNIT WEIGHT (g/cm³)		1.44		1.42	
12. SPECIFIC GRAVITY OF SOLIDS		2.73		2.73	
13. WATER CONTENT (% dry weight)	119.5	118.1	114.0	111.6	115.8
14. VOID RATIO		3.14		3.14	
15. SATURATED VOID RATIO		3.23		3.23	
16. POROSITY (%)		75.8		75.8	
17. LIQUID LIMIT					
18. PLASTIC LIMIT					
19. PLASTICITY INDEX					
20. LIQUIDITY INDEX					
21. COMPRESSION INDEX FROM LL					
22. COMPRESSIVE STRENGTH NATURAL (g/cm²)					
	REMOULD (g/cm²)				
23. COHESION NATURAL (g/cm²)		51.1		51.1	72.3
	REMOULD (g/cm²)			14.2	
24. SENSITIVITY			3		
25. ANGLE OF INTERNAL FRICTION (°)					
26. ACTIVITY					
27. MODULUS OF ELASTICITY					
28. SLUMP (%)					
29. REMARKS	O-227 cm silty clay MANGANESE nodules 16-17cm, + 32-33 cm.				

**CORE ANALYSIS SUMMARY SHEET**  
**ENGINEERING PROPERTIES**

ANALYZED BY STILES

NAVOCEANO-EXP-3167/18-B (Rev. 1-63)

DATE JUNE 63

1. CRUISE NO. <b>D-5</b>	4. SAMPLE NO. <b>BS-27</b>	5. DATE TAKEN (Day, month, year) <b>6 Dec. '62</b>	6. WATER DEPTH (m) <b>3940</b>	7. TYPE CORER <b>KULLENBERG</b>
2. LATITUDE <b>30° 34.2' N.</b>				8. CORE LENGTH (cm) <b>240.0</b>
3. LONGITUDE <b>121° 37.3' W.</b>				9. CORER PENETRATION (cm) <b>-</b>
10. SUBSAMPLE DEPTH IN CORE (cm)	117- 129	129- 136	136- 146	146- 156
11. WET UNIT WEIGHT (g/cm <sup>3</sup> )	1.42			1.38
12. SPECIFIC GRAVITY OF SOLIDS	2.72			
13. WATER CONTENT (% dry weight)	116.3	119.0	130.1	129.6
14. VOID RATIO	3.13			
15. SATURATED VOID RATIO	3.16			
16. POROSITY (%)	75.8			
17. LIQUID LIMIT				
18. PLASTIC LIMIT				
19. PLASTICITY INDEX				
20. LIQUIDITY INDEX				
21. COMPRESSION INDEX FROM LL				
22. COMPRESSIVE STRENGTH NATURAL (g/cm <sup>2</sup> )				
	REMOULD (g/cm <sup>2</sup> )			
23. COHESION NATURAL (g/cm <sup>2</sup> )	>337		125.6	78.7
	REMOULD (g/cm <sup>2</sup> )			40.8
24. SENSITIVITY	5			23.7
25. ANGLE OF INTERNAL FRICTION (°)				3
26. ACTIVITY				
27. MODULUS OF ELASTICITY				
28. SLUMP (in)				
29. REMARKS				

**CORE ANALYSIS SUMMARY SHEET**  
**ENGINEERING PROPERTIES**

ANALYZED BY STILES

DATE JUNE 63

NAVOCEANO-EXP-3167/1B-B (Rev. 1-63)

1. CRUISE NO.	D-5	4. SAMPLE NO.	135-27	7. TYPE CORER	KULLENBERG
2. LATITUDE	30° 34.2' N.	5. DATE TAKEN (Day, month, year)	6 DEC. '62	8. CORE LENGTH (cm)	240.0 cm
3. LONGITUDE	121° 37.3' W.	6. WATER DEPTH (m)	3940	9. CORER PENETRATION (cm)	-
10. SUBSAMPLE DEPTH IN CORE (cm)	227-240				
11. WET UNIT WEIGHT ( $\text{g/cm}^3$ )					
12. SPECIFIC GRAVITY OF SOLIDS					
13. WATER CONTENT (% dry weight)					
14. VOID RATIO					
15. SATURATED VOID RATIO					
16. POROSITY (%)					
17. LIQUID LIMIT					
18. PLASTIC LIMIT					
19. PLASTICITY INDEX					
20. LIQUIDITY INDEX					
21. COMPRESSION INDEX FROM LL					
22. COMPRESSIVE STRENGTH NATURAL	( $\text{kg/cm}^2$ )				
	REMOULD	( $\text{kg/cm}^2$ )			
23. COHESION NATURAL	( $\text{kg/cm}^2$ )				
	REMOULD	( $\text{kg/cm}^2$ )			
24. SENSITIVITY					
25. ANGLE OF INTERNAL FRICTION ( $^\circ$ )					
26. ACTIVITY					
27. MODULUS OF ELASTICITY					
28. SLUMP (%)					
29. REMARKS					

**CORE ANALYSIS SUMMARY SHEET**  
**ENGINEERING PROPERTIES**

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ANALYZED BY SILLES

NAVOCEANO-EXP-3167/18-B (Rev. 1-63)

DATE JUNE 63

1. CRUISE NO.	D-5	4. SAMPLE NO.	B5-28	7. TYPE CORER	KULLENBERG
2. LATITUDE	30° 46.8'	5. DATE TAKEN (D.Y., month, year)	6 Dec. '62	8. CORE LENGTH (cm)	184.0
3. LONGITUDE	121° 45.2'	6. WATER DEPTH (m)	4133	9. CORER PENETRATION (cm)	
10. SUBSAMPLE DEPTH IN CORE (cm)	0-10	10-17	17-27	27-37	37-44
11. WET UNIT WEIGHT ( $\text{g/cm}^3$ )					
12. SPECIFIC GRAVITY OF SOLIDS	2.76	1.42	1.41	1.41	1.41
13. WATER CONTENT (% dry weight)	86.4	121.0	119.2	121.0	120.8
14. VOID RATIO		3.30			
15. SATURATED VOID RATIO		3.34			
16. POROSITY (%)		76.7			
17. LIQUID LIMIT					
18. PLASTIC LIMIT					
19. PLASTICITY INDEX					
20. LIQUIDITY INDEX					
21. COMPRESSION INDEX FROM LL					
22. COMPRESSIVE STRENGTH <sup>a</sup>	NATURAL REMOULD	( $\text{g/cm}^2$ ) ( $\text{g/cm}^2$ )			
23. COHESION	NATURAL REMOULD	( $\text{g/cm}^2$ ) ( $\text{g/cm}^2$ )	55.7	43.8	50.2
24. SENSITIVITY			14.5	14.5	9.1
25. ANGLE OF INTERNAL FRICTION (°)			3	3	5
26. ACTIVITY					
27. MODULUS OF ELASTICITY					
28. SLUMP (in)					
29. REMARKS	0-184 cm. silty clay				

**CORE ANALYSIS SUMMARY SHEET**  
**ENGINEERING PROPERTIES**

ANALYZED BY STILES

DATE JUNE 63

NAVOCEANO-EXP-3167/1B-8 (Rev. 1-63)

1. CRUISE NO.	D-5	4. SAMPLE NO.	BS-28	7. TYPE CORER	KULLENBERG
2. LATITUDE	30° 46.8' N.	5. DATE TAKEN (Day, month, year)	6 Dec. '62	8. CORE LENGTH (cm)	184.0
3. LONGITUDE	121° 45.2' W.	6. WATER DEPTH (m)	4.33	9. CORER PENETRATION (cm)	
10. SUBSAMPLE DEPTH IN CORE (cm)	107.7	117.27	27.37	137.50	150.57
11. WET UNIT WEIGHT (g/cm <sup>3</sup> )				157.64	164.74
12. SPECIFIC GRAVITY OF SOLIDS				174.74	174.74
13. WATER CONTENT (% dry weight)				1.37	
14. VOID RATIO		122.7	130.4	130.2	123.0
15. SATURATED VOID RATIO				3.54	3.56
16. POROSITY (%)				78.1	
17. LIQUID LIMIT					
18. PLASTIC LIMIT					
19. PLASTICITY INDEX					
20. LIQUIDITY INDEX					
21. COMPRESSION INDEX FROM LL					
22. COMPRESSIVE STRENGTH <sup>a</sup>	NATURAL REMOULD	(g/cm <sup>2</sup> ) (g/cm <sup>2</sup> )			
23. COHESION	NATURAL REMOULD	(g/cm <sup>2</sup> ) (g/cm <sup>2</sup> )		112.5	
24. SENSITIVITY					
25. ANGLE OF INTERNAL FRICTION (°)					
26. ACTIVITY					
27. MODULUS OF ELASTICITY					
28. SLUMP (")					
29. REMARKS					

**CORE ANALYSIS SUMMARY SHEET**  
**ENGINEERING PROPERTIES**

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ANALYZED BY STEWLES

NAVOCANO-EXP-3167/18-8 (Rev. 1-63)

DATE JUNE 63

1. CRUISE NO.	D-5	4. SAMPLE NO.	135-3C	7. TYPE CORER	KULLENBERG
2. LATITUDE	31° 04.1' N.	5. DATE TAKEN (day, month, year)	8 Dec. '62	8. CORE LENGTH (cm)	319.5
3. LONGITUDE	121° 57.8' W.	6. WATER DEPTH (m)	4015	9. CORER PENETRATION (cm)	
10. SUBSAMPLE DEPTH IN CORE (cm)	0-10	10-17	17-27	27-37	37-47
11. WET. UNIT WEIGHT (g/cm³)	1.41	1.41	1.38	1.38	1.38
12. SPECIFIC GRAVITY OF SOLIDS	2.68				
13. WATER CONTENT (% dry weight)	130.9	120.5	127.4	127.1	129.6
14. VOID RATIO		3.19		130.8	130.8
15. SATURATED VOID RATIO		3.23		125.4	134.8
16. POROSITY (%)		76.1			133.9
17. LIQUID LIMIT					
18. PLASTIC LIMIT					
19. PLASTICITY INDEX					
20. LIQUIDITY INDEX					
21. COMPRESSION INDEX FROM LL					
22. COMPRESSIVE STRENGTH <sup>a</sup>	NATURAL REMOULD	(g/cm²) (g/cm²)			
23. COHESION	NATURAL REMOULD	(g/cm²) (g/cm²)	64.8 9.7	34.0	47.5
24. SENSITIVITY			7		42.0
25. ANGLE OF INTERNAL FRICTION (°)					
26. ACTIVITY					
27. MODULUS OF ELASTICITY					
28. SLUMP (S)					
29. REMARKS	O-319.5cm Silty Clay				

**CORE ANALYSIS SUMMARY SHEET**  
**ENGINEERING PROPERTIES**

ANALYZED BY: STILES

DATE JUNE 63

NAVOCEANO-EXP-3167/18-B (Rev. 1-63)

1. CRUISE NO.	D-5	4. SAMPLE NO.	BS-30	7. TYPE CORER	KULLENBERG
2. LATITUDE	31° 04.1' N.	5. DATE TAKEN (day, month, year)	8 DEC '62	8. CORE LENGTH (cm)	39.5
3. LONGITUDE	121° 57.8' W	6. WATER DEPTH (m)	40.5	9. CORER PENETRATION (cm)	-
10. SUBSAMPLE DEPTH IN CORE (cm)	110	12.2	132	142	152
11. WET UNIT WEIGHT ( $\text{g/cm}^3$ )	1.22	13. WATER CONTENT (% dry weight)	125.4	13.0.7	114.6
12. SPECIFIC GRAVITY OF SOLIDS		14. VOID RATIO		121.6	128.6
15. SATURATED VOID RATIO		16. POROSITY (%)		138.2	
17. LIQUID LIMIT		18. PLASTIC LIMIT			
19. PLASTICITY INDEX		20. LIQUIDITY INDEX			
21. COMPRESSION INDEX FROM LL		22. COMPRESSIVE STRENGTH NATURAL REMOULD	( $\text{kg/cm}^2$ )	63.9	
23. COHESION NATURAL REMOULD	( $\text{kg/cm}^2$ )	24. SENSITIVITY		15.7	
25. ANGLE OF INTERNAL FRICTION (°)		26. ACTIVITY		4	
27. MODULUS OF ELASTICITY		28. SLUMP (in)			
29. REMARKS					

**CORE ANALYSIS SUMMARY SHEET**  
**ENGINEERING PROPERTIES**

ANALYZED BY SIMES

NAVOCEANO-EXP-3167/18-B (Rev. 1-63)

DATE JUNE 63

1. CRUISE NO.	<b>D-5</b>	4. SAMPLE NO.	<b>BS-30</b>	7. TYPE CORER	<b>KULLENBERG</b>
2. LATITUDE	<b>31° 04.1' N.</b>	5. DATE TAKEN (DAY, month, year)	<b>8 DEC. '62</b>	8. CORE LENGTH (cm)	<b>319.5</b>
3. LONGITUDE	<b>121° 57.8' W.</b>	6. WATER DEPTH (m)	<b>40.5</b>	9. CORER PENETRATION (cm)	<b>-</b>
10. SUBSAMPLE DEPTH IN CORE (cm)	<b>233-240</b>	7. DRY WEIGHT (g/cm <sup>3</sup> )	<b>2.49</b>	8. DRY WEIGHT (g/cm <sup>3</sup> )	<b>2.40</b>
11. WET UNIT WEIGHT (g/cm <sup>3</sup> )	<b>1.37</b>	9. DRY DENSITY (g/cm <sup>3</sup> )	<b>2.60</b>	10. DRY DENSITY (g/cm <sup>3</sup> )	<b>2.73</b>
12. SPECIFIC GRAVITY OF SOLIDS		11. DRY DENSITY (g/cm <sup>3</sup> )	<b>2.70</b>	12. DRY DENSITY (g/cm <sup>3</sup> )	<b>2.83</b>
13. WATER CONTENT (% dry weight)	<b>133.1</b>	13. DRY DENSITY (g/cm <sup>3</sup> )	<b>2.67</b>	13. DRY DENSITY (g/cm <sup>3</sup> )	<b>2.80</b>
14. VOID RATIO		14. DRY DENSITY (g/cm <sup>3</sup> )	<b>2.60</b>	14. DRY DENSITY (g/cm <sup>3</sup> )	<b>2.73</b>
15. SATURATED VOID RATIO		15. DRY DENSITY (g/cm <sup>3</sup> )	<b>2.57</b>	15. DRY DENSITY (g/cm <sup>3</sup> )	<b>2.70</b>
16. POROSITY (%)		16. DRY DENSITY (g/cm <sup>3</sup> )	<b>2.54</b>	16. DRY DENSITY (g/cm <sup>3</sup> )	<b>2.67</b>
17. LIQUID LIMIT		17. DRY DENSITY (g/cm <sup>3</sup> )	<b>2.51</b>	17. DRY DENSITY (g/cm <sup>3</sup> )	<b>2.60</b>
18. PLASTIC LIMIT		18. DRY DENSITY (g/cm <sup>3</sup> )	<b>2.48</b>	18. DRY DENSITY (g/cm <sup>3</sup> )	<b>2.57</b>
19. PLASTICITY INDEX		19. DRY DENSITY (g/cm <sup>3</sup> )	<b>2.45</b>	19. DRY DENSITY (g/cm <sup>3</sup> )	<b>2.54</b>
20. LIQUIDITY INDEX		20. DRY DENSITY (g/cm <sup>3</sup> )	<b>2.42</b>	20. DRY DENSITY (g/cm <sup>3</sup> )	<b>2.51</b>
21. COMPRESSION INDEX FROM LL		21. DRY DENSITY (g/cm <sup>3</sup> )	<b>2.39</b>	21. DRY DENSITY (g/cm <sup>3</sup> )	<b>2.48</b>
22. COMPRESSIVE STRENGTH NATURAL		22. DRY DENSITY (g/cm <sup>3</sup> )	<b>2.36</b>	22. DRY DENSITY (g/cm <sup>3</sup> )	<b>2.45</b>
		23. COHESION NATURAL	<b>88.6</b>		
		24. SENSITIVITY			
		25. ANGLE OF INTERNAL FRICTION (°)			
		26. ACTIVITY			
		27. MODULUS OF ELASTICITY			
		28. SLUMP (in)			
		29. REMARKS			

**CORE ANALYSIS SUMMARY SHEET**  
**ENGINEERING PROPERTIES**

**GEOLOGY LAB, FILE COPY**

ANALYZED BY Stiles

NAVOCEANO-EXP-3167/18-B (Rev. 1-63)

DATE JUNE 63

1. CRUISE NO.	D-5	4. SAMPLE NO.	B6-31	5. DATE TAKEN (day, month, year)	8 Dec '62	7. TYPE CORER	EWING
2. LATITUDE	31° 02.6'	6. WATER DEPTH (m)	39.22	8. CORE LENGTH (cm)	283.5		
3. LONGITUDE	121° 34.4'	10. SUBSAMPLE DEPTH IN CORE (cm)	0-1.5	9. CORER PENETRATION (cm) -			
11. WET UNIT WEIGHT (g/cm³)	1.21	11.5	1.25	25.38	38.45	45.59	59.66
12. SPECIFIC GRAVITY OF SOLIDS				66.73	73.81	81.88	88.98
13. WATER CONTENT (% dry weight)				86.73	88.98	98.08	108.13.5
14. VOID RATIO				143		1.40	
15. SATURATED VOID RATIO				2.73		2.70	
16. POROSITY (%)				3.17		3.36	
17. LIQUID LIMIT				3.22		3.41	
18. PLASTIC LIMIT				76.0		77.1	
19. PLASTICITY INDEX							
20. LIQUIDITY INDEX							
21. COMPRESSION INDEX FROM LL							
22. COMPRESSIVE STRENGTH <sup>H</sup>	NATURAL REMOULD	(g/cm²) (g/cm²)					
23. COHESION	NATURAL REMOULD	(g/cm²) (g/cm²)					
24. SENSITIVITY							
25. ANGLE OF INTERNAL FRICTION (°)							
26. ACTIVITY							
27. MODULUS OF ELASTICITY							
28. SLUMP (%)							
29. REMARKS	0-280 cm SILTY CLAY 273-274 cm VOLCANIC GLASS						

**CORE ANALYSIS SUMMARY SHEET**  
**ENGINEERING PROPERTIES**

ANALYZED BY STILES

NAVOCEANO-EXP-3167/18-B (Rev. 1-63)

1. CRUISE NO.	D-5	4. SAMPLE NO.	B5-31	7. TYPE CORER	EWING
2. LATITUDE	31° 02.6'	5. DATE TAKEN (Day, Month, Year)	8 Dec. '62	8. CORE LENGTH (cm)	283.5
3. LONGITUDE	121° 34.4'	6. WATER DEPTH (m)	392.2	9. CORER PENETRATION (cm)	-
10. SUBSAMPLE DEPTH IN CORE (cm)	13.5	7. 123.5 - 133.5	143.5 - 149.5	159.5 - 169.7	179.7 - 190.9
11. WET UNIT WEIGHT (g/cm³)	1.23.5	133.5	143.5	149.5	159.5
12. SPECIFIC GRAVITY OF SOLIDS					
13. WATER CONTENT (% dry weight)	116.9	110.0	118.5	117.2	121.4
14. VOID RATIO				125.8	132.5
15. SATURATED VOID RATIO					128.9
16. POROSITY (%)					
17. LIQUID LIMIT					3.43
18. PLASTIC LIMIT					3.48
19. PLASTICITY INDEX					77.4
20. LIQUIDITY INDEX					
21. COMPRESSION INDEX FROM LL					
22. COMPRESSIVE STRENGTH <sup>a</sup>	NATURAL REMOULD	(g/cm²) (g/cm²)			
23. COHESION	NATURAL REMOULD	(g/cm²) (g/cm²)		146.9	
24. SENSITIVITY					
25. ANGLE OF INTERNAL FRICTION (°)					
26. ACTIVITY					
27. MODULUS OF ELASTICITY					
28. SLUMP (")					
29. REMARKS					

**CORE ANALYSIS SUMMARY SHEET**  
**ENGINEERING PROPERTIES**

ANALYZED BY STILES

DATE JUNE 63

NAVOCEANO-EXP-3167/18-B (Rev. 1-63)

1. CRUISE NO.	D-5	4. SAMPLE NO.	BS-31	7. TYPE CORER	EWING
2. LATITUDE	31° 02.6'	5. DATE TAKEN (day, month, year)	8 DEC '62	8. CORE LENGTH (cm)	283.5
3. LONGITUDE	121° 34.4'	6. WATER DEPTH (m)	392.2	9. CORER PENETRATION (cm)	
10. SUBSAMPLE DEPTH IN CORE (cm)	239-244	7. 244-254	254-260	270-280	280-283.5
11. WET UNIT WEIGHT (g/cm <sup>3</sup> )					
12. SPECIFIC GRAVITY OF SOLIDS					
13. WATER CONTENT (% dry weight)	127.9	136.4	140.7		
14. VOID RATIO					
15. SATURATED VOID RATIO					
16. POROSITY (%)					
17. LIQUID LIMIT					
18. PLASTIC LIMIT					
19. PLASTICITY INDEX					
20. LIQUIDITY INDEX					
21. COMPRESSION INDEX FROM LL					
22. COMPRESSIVE STRENGTH	NATURAL REMOULD	(g/cm <sup>2</sup> ) (g/cm <sup>2</sup> )			
23. COHESION	NATURAL REMOULD	(g/cm <sup>2</sup> ) (g/cm <sup>2</sup> )			
24. SENSITIVITY					
25. ANGLE OF INTERNAL FRICTION (°)					
26. ACTIVITY					
27. MODULUS OF ELASTICITY					
28. SLUMP (%)					
29. REMARKS					

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## CORE ANALYSIS SUMMARY SHEET ENGINEERING PROPERTIES

ANALYZED BY STILES

NAVOCEANO-EXP-3162/18-B (Rev. 1-63)

1. CRUISE NO.	D-5	4. SAMPLE NO.	B5-32	7. TYPE CORER	KULLENBERG
2. LATITUDE	31° 0' 54"	5. DATE TAKEN (day, month, year)	8 Dec '62	8. CORE LENGTH (cm)	296.0
3. LONGITUDE	121° 48.1'	6. WATER DEPTH (m)	39.30	9. CORER PENETRATION (cm)	-
10. SUBSAMPLE DEPTH IN CORE (cm)	0-10	10-17	17-27	27-37	37-48
11. WET UNIT WEIGHT (g/cm³)	1.40	1.40	1.36	1.40	1.38
12. SPECIFIC GRAVITY OF SOLIDS	2.71			2.71	
13. WATER CONTENT (% dry weight)	131.4	123.4	129.2	137.1	138.7
14. VOID RATIO	3.33			3.42	
15. SATURATED VOID RATIO	3.34			3.46	
16. POROSITY (%)	76.9			77.4	
17. LIQUID LIMIT					
18. PLASTIC LIMIT					
19. PLASTICITY INDEX					
20. LIQUIDITY INDEX					
21. COMPRESSION INDEX FROM LL					
22. COMPRESSIVE STRENGTH <sup>a</sup>	NATURAL REMOULD	(g/cm²) (g/cm²)			
23. COHESION	NATURAL REMOULD	(g/cm²) (g/cm²)	53.9 22.8	38.9	25.6
24. SENSITIVITY			2		
25. ANGLE OF INTERNAL FRICTION (°)					
26. ACTIVITY					
27. MODULUS OF ELASTICITY					
28. SLUMP (%)					
29. REMARKS	0-296 cm. SILTY CLAY 277-279 cm. VOLCANIC GLASS				

**CORE ANALYSIS SUMMARY SHEET**  
**ENGINEERING PROPERTIES**

ANALYZED BY STILES

NAVOCEANO-EXP-3167/18-8 (Rev. 1-63)

1. CRUISE NO.	D-5	4. SAMPLE NO.	BS-32	7. TYPE CORER	KULLENBERG
2. LATITUDE	31° 15.4'	5. DATE TAKEN (day, month, year)	8 DEC. '62	8. CORE LENGTH (cm)	296.0
3. LONGITUDE	121° 48.1'	6. WATER DEPTH (m)	3930	9. CORER PENETRATION (cm)	-
10. SUBSAMPLE DEPTH IN CORE (cm)	112-124	124-131	131-141	141-149	149-159
11. WET UNIT WEIGHT (g/cm³)	1.42			1.40	
12. SPECIFIC GRAVITY OF SOLIDS				2.70	
13. WATER CONTENT (% dry weight)	124.5		119.5	127.3	126.4
14. VOID RATIO				3.36	
15. SATURATED VOID RATIO				3.41	
16. POROSITY (%)				77.1	
17. LIQUID LIMIT					
18. PLASTIC LIMIT					
19. PLASTICITY INDEX					
20. LIQUIDITY INDEX					
21. COMPRESSION INDEX FROM LL					
22. COMPRESSIVE STRENGTH NATURAL	(g/cm²)				
	REMOULD	(g/cm²)			
23. COHESION NATURAL	(g/cm²)		47.5		319.9
	REMOULD	(g/cm²)			
24. SENSITIVITY					
25. ANGLE OF INTERNAL FRICTION (°)					
26. ACTIVITY					
27. MODULUS OF ELASTICITY					
28. SLUMP (")					
29. REMARKS					

**CORE ANALYSIS SUMMARY SHEET**  
**ENGINEERING PROPERTIES**

ANALYZED BY S. STILES

NAVOCEANO-EXP-3167/18-B (Rev. 1-63)

1. CRUISE NO.	D-5	4. SAMPLE NO.	BS-32	7. TYPE CORER	KULLENBERG
2. LATITUDE	31° 15.4'	5. DATE TAKEN (day, month, year)	8 Dec. '62	8. CORE LENGTH (cm)	296.0
3. LONGITUDE	121° 48.1'	6. WATER DEPTH (m)	3930	9. CORER PENETRATION (cm)	-
10. SUBSAMPLE DEPTH IN CORE (cm)	229.7	227.37	237.247	247.505	250.5
11. WET UNIT WEIGHT (g/cm³)	1.39			260.5	267.5
12. SPECIFIC GRAVITY OF SOLIDS				268.5	275.5
13. WATER CONTENT (% dry weight)	129.4	133.4	136.1	276.5	286.0
14. VOID RATIO				287.5	296.0
15. SATURATED VOID RATIO				297.5	306.0
16. POROSITY (%)				308.5	317.0
17. LIQUID LIMIT				319.5	328.0
18. PLASTIC LIMIT				320.5	329.0
19. PLASTICITY INDEX				330.5	339.0
20. LIQUIDITY INDEX				340.5	349.0
21. COMPRESSION INDEX FROM LL				350.5	359.0
22. COMPRESSIVE STRENGTH NATURAL	(g/cm²)	REMOULD	(g/cm²)	360.5	369.0
23. COHESION	NATURAL	(g/cm²)	REMOULD	(g/cm²)	370.5
24. SENSITIVITY				371.5	380.0
25. ANGLE OF INTERNAL FRICTION (°)				382.5	391.0
26. ACTIVITY				393.5	399.0
27. MODULUS OF ELASTICITY				394.5	403.0
28. SLUMP (in.)				405.5	414.0
29. REMARKS					

**CORE ANALYSIS SUMMARY SHEET**  
**ENGINEERING PROPERTIES**

ANALYZED BY NCEL - Pt. Hueneue

NAVOCEANO-EP-1167114-8 (Rev. 1-63)

DATE 9 May 1963

1. CRUISE NO.	Project D-5	4. SAMPLE NO.	BS-33	7. TYPE CORER	Kullenberg, gravity
2. LATITUDE	31° 27.8'	5. DATE TAKEN (Day, Month, Year)	9/12/62	8. CORE LENGTH (cm)	290
3. LONGITUDE	121° 48.8'	6. WATER DEPTH (m)	4023	9. CORER PENETRATION (cm)	Not recorded
10. SUBSAMPLE DEPTH IN CORE (cm)	0.0-7.4	15.2-22.5	30.5-32.1	45.7-53.3	61.0-68.0
11. WET UNIT WEIGHT (g/cm³)	1.374	1.348	1.364	1.376	1.333
12. SPECIFIC GRAVITY OF SOLIDS	2.744	3.131	2.812	2.991	2.801
13. WATER CONTENT (% dry weight)	123.5	125.7	135.7	135.3	137.8
14. VOID RATIO	3.464	4.236	3.854	4.102	4.000
15. SATURATED VOID RATIO	3.389	3.936	3.816	4.047	3.860
16. POROSITY (%)	77.6	80.9	79.4	80.4	80.0
17. LIQUID LIMIT	90.8	-	93.9	-	97.7
18. PLASTIC LIMIT	-	-	-	-	-
19. PLASTICITY INDEX	-	-	-	-	-
20. LIQUIDITY INDEX	-	-	-	-	-
21. COMPRESSION INDEX FROM LL	0.73	-	0.76	-	0.79
22. COMPRESSIVE STRENGTH NATURAL REMOULD	(g/cm²)	-	-	-	-
23. COHESION NATURAL REMOULD	(g/cm²)	30.2	52.7	56.6	25.5
24. SENSITIVITY	3.0	6.2	7.0	6.5	3.7
25. ANGLE OF INTERNAL FRICTION (°)	-	-	-	-	-
26. ACTIVITY	-	-	-	-	-
27. MODULUS OF ELASTICITY	-	-	-	-	-
28. SCLP (S)	-	-	-	-	-

29. REMARKS Fairly uniform yellowish brown color over length of core. Sample appears hard as if strongly desiccated, however water content results are high. Some vertical and horizontal cracking of the sample.

**CORE ANALYSIS SUMMARY SHEET**  
**ENGINEERING PROPERTIES**

ANALYZED BY NCEL - Pt. Hueneme

DATE 9 May 1963

NAVOCLEAN-EXP-310711B-8 (Rev 1-63)

		4. SAMPLE NO.	BS-33 continued	7. TYPE CORER	Kullenberg, gravity
		5. DATE TAKEN (Day, month, year)	9/12/62	8. CORE LENGTH (cm)	290
		6. WATER DEPTH (m)	4023	9. CORER PENETRATION (cm)	Not recorded
1. CRUISE NO.	Project D-5	1/63-1/91	1/63-2/6	2/3-227	229-236
2. LATITUDE	31° 27.8'	-	1.389	1.433	1.369
3. LONGITUDE	121° 48.8'	-	1.403	1.433	1.411
10. SUBSAMPLE DEPTH IN CORE (cm)		3.030	3.201	2.991	2.950
11. WET UNIT WEIGHT (g/cm³)		3.030	3.201	2.991	2.950
12. SPECIFIC GRAVITY OF SOLIDS		3.030	3.201	2.991	2.950
13. WATER CONTENT (% dry weight)		127.1	140.6	123.4	118.4
14. VOID RATIO		3.926	4.495	3.808	3.505
15. SATURATED VOID RATIO		3.851	4.501	3.690	3.493
16. POROSITY (%)		79.7	81.8	79.2	77.8
17. LIQUID LIMIT		83.0	-	88.1	-
18. PLASTIC LIMIT		-	-	-	-
19. PLASTICITY INDEX		-	-	-	-
20. LIQUIDITY INDEX		-	-	-	-
21. COMPRESSION INDEX FROM LL		0.66	-	0.70	-
22. COMPRESSIVE STRENGTH NATURAL	(g/cm²)	-	-	-	-
REMOULD	(g/cm²)	-	-	-	-
23. COHESION NATURAL	(g/cm²)	53.8	45.7	48.4	54.5
REMOULD	(g/cm²)	9.98	8.79	10.5	7.03
24. SENSITIVITY		5.4	5.2	4.6	7.8
25. ANGLE OF INTERNAL FRICTION (°)		-	-	-	-
26. ACTIVITY		-	-	-	-
27. MODULUS OF ELASTICITY		-	-	-	-
28. SLUMP (S)		-	-	-	-
29. REMARKS					

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**CORE ANALYSIS SUMMARY SHEET**  
**ENGINEERING PROPERTIES**

ANALYZED BY STILES

DATE JUNE 63

NAVOCEANO-EXP-3167/18-B (Rev. 1-63)

1. CRUISE NO.	D-5	4. SAMPLE NO.	BS-34	7. TYPE CORER	KULLENBERG
2. LATITUDE	31 ° 39.7' N	5. DATE TAKEN (day, month, year)	9 Dec. 62	8. CORE LENGTH (cm)	306.5
3. LONGITUDE	121 ° 49.1' W	6. WATER DEPTH (m)	39.96	9. CORER PENETRATION (cm)	-
10. SUBSAMPLE DEPTH IN CORE (cm)	0-11	11. WET UNIT WEIGHT (g/cm³)	1.38	12. SPECIFIC GRAVITY OF SOLIDS	2.75
13. WATER CONTENT (% dry weight)	133.4	13.87	137.6	139.7	146.3
14. VOID RATIO	3.63	15. SATURATED VOID RATIO	3.67	16. POROSITY (%)	78.4
17. LIQUID LIMIT		18. PLASTIC LIMIT		19. PLASTICITY INDEX	
20. LIQUIDITY INDEX		21. COMPRESSION INDEX FROM LL		22. COMPRESSIVE STRENGTH NATURAL (g/cm²)	
23. COHESION NATURAL (g/cm²)		REMOULD (g/cm²)		REMOULD (g/cm²)	60.7
24. SENSITIVITY	5	25. ANGLE OF INTERNAL FRICTION (°)		26. ACTIVITY	
27. MODULUS OF ELASTICITY		28. SLUMP (cm)		29. REMARKS 0-306.5cm Silty Clay	

## CORE ANALYSIS SUMMARY SHEET ENGINEERING PROPERTIES

NAVOCÉANO-EXP-3163/10-8 (Rev. 1-63)

## ANALYZED BY STYLES

DATE

1. CRUISE NO.	D-5	4. SAMPLE NO.	BS-34	7. TYPE CORER	KUHNENBERG
2. LATITUDE	31° 39.7' N	5. DATE TAKEN (Day, month, year)	9 DEC. 62	8. CORE LENGTH (cm)	306.5
2. LONGITUDE	121° 49.1' W	6. WATER DEPTH (m)	39.96	9. CORER PENETRATION (cm) -	
10. SUBSAMPLE DEPTH IN CORE (cm)	105.15	115.122	122.32	132.42	142.66
11. WET UNIT WEIGHT (g/cm³)	1.37	1.37	1.37	1.37	1.38
12. SPECIFIC GRAVITY OF SOLIDS				2.73	2.68
13. WATER CONTENT (% dry weight)	137.3	143.8	136.2	138.9	146.3
14. VOID RATIO				3.74	3.47
15. SATURATED VOID RATIO				3.79	3.50
16. POROSITY (%)				78.9	77.6
17. LIQUID LIMIT					
18. PLASTIC LIMIT					
19. PLASTICITY INDEX					
20. LIQUIDITY INDEX					
21. COMPRESSION INDEX FROM LL					
22. COMPRESSIVE STRENGTH NATURAL	(g/cm²)	REMOULD	(g/cm²)		
23. COHESION NATURAL	(g/cm²)	REMOULD	(g/cm²)	48.9	104.1
24. SENSITIVITY					15.5
25. ANGLE OF INTERNAL FRICTION (°)					7
26. ACTIVITY					
27. MODULUS OF ELASTICITY					
28. SLUMP (S)					
29. REMARKS					

**CORE ANALYSIS SUMMARY SHEET**  
**ENGINEERING PROPERTIES**

NAVOCEANO-EXP-3167/18-B (Rev. 1-63)

ANALYZED BY STILES

DATE JUNE 63

1. CRUISE NO.	D-5	4. SAMPLE NO.	BS-34	7. TYPE CORER	KULLENBERG
2. LATITUDE	31° 39.7' N	5. DATE TAKEN (Day, month, year)	9 Dec 62	8. CORE LENGTH (cm)	306.5
3. LONGITUDE	121° 49.1' W	6. WATER DEPTH (m)	39.96	9. CORER PENETRATION (cm)	-
10. SUBSAMPLE DEPTH IN CORE (cm)	247.57	25.267	267.8	288.5	295.5
11. WET UNIT WEIGHT (g/cm <sup>3</sup> )					304.5
12. SPECIFIC GRAVITY OF SOLIDS					
13. WATER CONTENT (% dry weight)	139.1	144.9	151.3		
14. VOID RATIO			1.35		
15. SATURATED VOID RATIO					
16. POROSITY (%)					
17. LIQUID LIMIT					
18. PLASTIC LIMIT					
19. PLASTICITY INDEX					
20. LIQUIDITY INDEX					
21. COMPRESSION INDEX FROM LL					
22. COMPRESSIVE STRENGTH NATURAL	(g/cm <sup>2</sup> )				
	REMOULD	(g/cm <sup>2</sup> )			
23. COHESION	NATURAL	(g/cm <sup>2</sup> )		101.2	
	REMOULD	(g/cm <sup>2</sup> )			
24. SENSITIVITY					
25. ANGLE OF INTERNAL FRICTION (°)					
26. ACTIVITY					
27. MODULUS OF ELASTICITY					
28. SLUMP (in)					
29. REMARKS					

**CORE ANALYSIS SUMMARY SHEET**  
**ENGINEERING PROPERTIES**

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ANALYZED BY STILES

DATE JUNE 63

NAVOCEANO EXP-3167/18-B (Rev. 1-63)

1. CRUISE NO.	D 5	4. SAMPLE NO.	B 5 - 35	7. TYPE CORER	KUHLENBERG
2. LATITUDE	31° 10.1' N	5. DATE TAKEN (DAY, month, year)	9 DEC. '62	8. CORE LENGTH (cm)	278
3. LONGITUDE	121° 20.2' W	6. WATER DEPTH (m)	3716	9. CORER PENETRATION (cm)	100
10. SUBSAMPLE DEPTH IN CORE (cm)	0 - 10	11. WET UNIT WEIGHT (g/cm³)	1.37	12. SPECIFIC GRAVITY OF SOLIDS	2.74
13. WATER CONTENT (% dry weight)	145.8	137.8	151.9	146.5	143.9
14. VOID RATIO		3.75			
15. SATURATED VOID RATIO		3.78			
16. POROSITY (%)		78.9			
17. LIQUID LIMIT					
18. PLASTIC LIMIT					
19. PLASTICITY INDEX					
20. LIQUIDITY INDEX					
21. COMPRESSION INDEX FROM LL					
22. COMPRESSIVE STRENGTH NATURAL (g/cm²)					
	REMOULD (g/cm²)				
23. COHESION NATURAL (g/cm²)		47.6		34.9	66.7
	REMOULD (g/cm²)	4.8			
24. SENSITIVITY		10			
25. ANGLE OF INTERNAL FRICTION (°)					
26. ACTIVITY					
27. MODULUS OF ELASTICITY					
28. SLUMP (%)					
29. REMARKS	0-278 consistency clay				

**CORE ANALYSIS SUMMARY SHEET**  
**ENGINEERING PROPERTIES**

ANALYZED BY STILES

NAVOCEANO-EXP-3167/18-B (Rev. 1-63)

1. CRUISE NO.	D-5	4. SAMPLE NO.	B 5 - 35	7. TYPE CORER	Kullenback
2. LATITUDE	31 ° 40.1' N	5. DATE TAKEN (DAY, month, year)	9 DEC. '62	8. CORE LENGTH (cm)	278
3. LONGITUDE	121 ° 20.3' W	6. WATER DEPTH (m)	37/6	9. CORER PENETRATION (cm)	
10. SUBSAMPLE DEPTH IN CORE (cm)	107-102.3	122-152	152-163	163-173	173-183
11. WET UNIT WEIGHT (g/cm³)				1.93	2.00
12. SPECIFIC GRAVITY OF SOLIDS				1.37	1.37
13. WATER CONTENT (% dry weight)	128.6			2.68	2.70
14. VOID RATIO				138.6	151.5
15. SATURATED VOID RATIO				3.68	128.2
16. POROSITY (%)				3.71	3.44
17. LIQUID LIMIT				78.6	3.46
18. PLASTIC LIMIT					77.5
19. PLASTICITY INDEX					
20. LIQUIDITY INDEX					
21. COMPRESSION INDEX FROM LL					
22. COMPRESSIVE STRENGTH NATURAL	(g/cm²)	REMOULD	(g/cm²)		
23. COHESION NATURAL	(g/cm²)	REMOULD	(g/cm²)	67.6	116.0
24. SENSITIVITY				19.2	
25. ANGLE OF INTERNAL FRICTION (°)				44	
26. ACTIVITY					
27. MODULUS OF ELASTICITY					
28. SLUMP (%)					
29. REMARKS					

**CORE ANALYSIS SUMMARY SHEET**  
**ENGINEERING PROPERTIES**

NAVOCEANO-EXP-3167/1B-B (Rev. 1-63)

ANALYZED BY STILES

1. CRUISE NO.	D-5	4. SAMPLE NO.	B5-35	7. TYPE CORER	KULLENBERG
2. LATITUDE	31° 40.1'	5. DATE TAKEN (Day, month, year)	9 DEC. '62	8. CORE LENGTH (cm)	278.0
3. LONGITUDE	121° 20.2'	6. WATER DEPTH (m)	3716	9. CORER PENETRATION (cm)	-
10. SUBSAMPLE DEPTH IN CORE (cm)	2457	257-	267-		
11. WET UNIT WEIGHT (g/cm <sup>3</sup> )	2.67	2.78			
12. SPECIFIC GRAVITY OF SOLIDS					
13. WATER CONTENT (% dry weight)	140.9	141.8	140.0		
14. VOID RATIO					
15. SATURATED VOID RATIO					
16. POROSITY (%)					
17. LIQUID LIMIT					
18. PLASTIC LIMIT					
19. PLASTICITY INDEX					
20. LIQUIDITY INDEX					
21. COMPRESSION INDEX FROM LL					
22. COMPRESSIVE STRENGTH NATURAL	(g/cm <sup>2</sup> )	REMOULD	(g/cm <sup>2</sup> )		
23. COHESION NATURAL	(g/cm <sup>2</sup> )	REMOULD	(g/cm <sup>2</sup> )		
24. SENSITIVITY					
25. ANGLE OF INTERNAL FRICTION (°)					
26. ACTIVITY					
27. MODULUS OF ELASTICITY					
28. SLUMP (")					
29. REMARKS					

# CORE ANALYSIS SUMMARY SHEET

## ENGINEERING PROPERTIES

**GEOLOGY LAB. FILE COPY**

NAVOCCEANO-EXP-3167/18-B (Rev. 1-63)

1. CRUISE NO.	0-5	4. SAMPLE NO.	BS-36	7. TYPE CORER	Exting
2. LATITUDE	34 ° 52.3'	5. DATE TAKEN (Day, month, year)	10 DEC '62	8. CORE LENGTH (cm)	132.0
3. LONGITUDE	122 ° 59 '	6. WATER DEPTH (m)	34.82	9. CORER PENETRATION (cm)	
10. SUBSAMPLE DEPTH IN CORE (cm)	0-35	35	42	42	52
11. WET UNIT WEIGHT (g/cm³)		342	52	52	62
12. SPECIFIC GRAVITY OF SOLIDS	1.37				1.38
13. WATER CONTENT (% dry weight)	2.66				2.67
14. VOID RATIO	132.1	119.7	117.1	129.3	123.9
15. SATURATED VOID RATIO	3.49			133.9	141.3
16. POROSITY (%)	3.51				3.45
17. LIQUID LIMIT	77.7				77.5
18. PLASTIC LIMIT					
19. PLASTICITY INDEX					
20. LIQUIDITY INDEX					
21. COMPRESSION INDEX FROM LL					
22. COMPRESSIVE STRENGTH NATURAL	(g/cm²)				
	REMOULD	(g/cm²)			
23. COMPRESSION NATURAL	(g/cm²)			64.8	32.3
	REMOULD	(g/cm²)			
24. SENSITIVITY					
25. ANGLE OF INTERNAL FRICTION (°)					
26. ACTIVITY					
27. MODULUS OF ELASTICITY					
28. SLUMP (%)					
29. REMARKS					

# GEOLOGY LAB, FILE COPY

## CORE ANALYSIS SUMMARY SHEET ENGINEERING PROPERTIES

ANALYZED BY STILES

NAVOCEANO-EXP-3167/18-8 (Rev. 1-63)

1. CRUISE NO.	D-5	4. SAMPLE NO.	B5 - 37	7. TYPE CORER	Ewing
2. LATITUDE	24° 0' N	5. DATE TAKEN (Day, month, year)	11 DEC 62	8. CORE LENGTH (cm)	125
3. LONGITUDE	122° 0' W	6. WATER DEPTH (m)	29.26	9. CORER PENETRATION (cm)	
10. SUBSAMPLE DEPTH IN CORE (cm)	0	34 49	59 72	93 105	115 - 125
11. WET UNIT WEIGHT (g/cm <sup>3</sup> )		49 59	72 83	105	
12. SPECIFIC GRAVITY OF SOLIDS		2.63		1.44	
13. WATER CONTENT (% dry weight)				2.63	2.70
14. VOID RATIO		103.2	91.8	104.8	108.1 98.8 74.0
15. SATURATED VOID RATIO				2.79	
16. POROSITY (%)					2.84
17. LIQUID LIMIT					73.6
18. PLASTIC LIMIT					
19. PLASTICITY INDEX					
20. LIQUIDITY INDEX					
21. COMPRESSION INDEX FROM LL					
22. COMPRESSIVE STRENGTH NATURAL	(g/cm <sup>2</sup> )				
	REMOULD	(g/cm <sup>2</sup> )			
23. COHESION	NATURAL	(g/cm <sup>2</sup> )		45.6	
	REMOULD	(g/cm <sup>2</sup> )			
24. SENSITIVITY					
25. ANGLE OF INTERNAL FRICTION (°)					
26. ACTIVITY					
27. MODULUS OF ELASTICITY					
28. SLUMP (in)					
29. REMARKS					

**CORE ANALYSIS SUMMARY SHEET**  
**SEDIMENT SIZE AND COMPOSITION**

ANALYST N. NCEI - Pt. Hueneme

NAVOCANO-BP-3107/A Rev. 1-63)

DATE 25 April 1963

1. CRUISE NO.		Project D-5		4. SAMPLE NO.		BS-1		7. TYPE CORE Kullenberg, Gravity	
2. LATITUDE 35 ° 12.8'		5. DATE TAKEN (DAY, MO., YR.)		16/11/62		6. CORE LENGTH (cm)		85.1-1085.1-1168	
3. LONGITUDE 122 ° 05'		6. WATER DEPTH (m)		2981		9. CORE PENETRATION (cm)		Not recorded	
10. LABORATORY NUMBER		BS-1-1 BS-1-2 BS-1-3 BS-1-4 BS-1-5 BS-1-6 BS-1-7 BS-1-8		BS-1-9 BS-1-10 BS-1-11					
11. SUBSAMPLE DEPTH IN CORE (cm)		0.0-7.6 5.2-22.9 30.5-38.1 45.7-53.3 61.0-68.6 76.2-83.8 91.4-99.1		107-114 122-130 140-147 147-157					
12. COLOR (GSA ROCK COLOR CHART) [EF FIELD LAB DETERMINATION]		5Y 3/2 10Y 4/2 10Y 4/2 10Y 4/2 10Y 4/2 10Y 4/2 10Y 4/2		T T T T T T T T					
13. DODR		H <sub>2</sub> S							
14. SIZE & COMPOSITION ANALYSIS									
a. > 4 mm (S)		0 — 0 — 0 — 0 — 0 —		0 — 0 — 0 — 0 —		0 — 0 — 0 — 0 —		0 — 0 — 0 — 0 —	
b. 4 to 2 mm (S)		0 — 0 — 0 — 0 — 0 — 0 —		0 — 0 — 0 — 0 —		0 — 0 — 0 — 0 —		0 — 0 — 0 — 0 —	
c. 2 to 1 mm (S)		0 — 0 — 0 — 0 — 0 — 0 —		0.2 — 0.2 — 0.2 — 0.2 —		0.5 — 0.5 — 0.5 — 0.5 —		0 — 0 — 0 — 0 —	
d. 1 to .500 mm (S)		0.2 — 0.3 — 0.3 — 0.2 — 0.2 — 0.2 — 0.2 — 0.2 —		0.3 — 0.3 — 0.3 — 0.3 — 0.3 — 0.3 — 0.3 — 0.3 —		0.2 — 0.2 — 0.2 — 0.2 — 0.2 — 0.2 — 0.2 — 0.2 —		0.1 — 0.1 — 0.1 — 0.1 — 0.1 — 0.1 — 0.1 — 0.1 —	
e. .500 to .250 mm (S)		0.3 — 0.3 — 0.3 — 0.3 — 0.3 — 0.3 — 0.3 — 0.3 —		0.2 — 0.2 — 0.2 — 0.2 — 0.2 — 0.2 — 0.2 — 0.2 —		0.3 — 0.3 — 0.3 — 0.3 — 0.3 — 0.3 — 0.3 — 0.3 —		0.3 — 0.3 — 0.3 — 0.3 — 0.3 — 0.3 — 0.3 — 0.3 —	
f. .250 to .125 mm (S)		0.5 — 0.5 — 0.5 — 0.5 — 0.5 — 0.5 — 0.5 — 0.5 —		0.3 — 0.3 — 0.3 — 0.3 — 0.3 — 0.3 — 0.3 — 0.3 —		0.2 — 0.2 — 0.2 — 0.2 — 0.2 — 0.2 — 0.2 — 0.2 —		0.5 — 0.5 — 0.5 — 0.5 — 0.5 — 0.5 — 0.5 — 0.5 —	
g. .125 to .062 mm (S)		1.0 — 1.0 — 1.0 — 1.0 — 1.0 — 1.0 — 1.0 — 1.0 —		3.0 — 3.0 — 3.0 — 3.0 — 3.0 — 3.0 — 3.0 — 3.0 —		0.3 — 0.3 — 0.3 — 0.3 — 0.3 — 0.3 — 0.3 — 0.3 —		1.0 — 1.0 — 1.0 — 1.0 — 1.0 — 1.0 — 1.0 — 1.0 —	
h. .062 to .031 mm (S)		17.5 — 17.5 — 17.5 — 17.5 — 17.5 — 17.5 — 17.5 — 17.5 —		8.0 — 8.0 — 8.0 — 8.0 — 8.0 — 8.0 — 8.0 — 8.0 —		8.0 — 8.0 — 8.0 — 8.0 — 8.0 — 8.0 — 8.0 — 8.0 —		7.0 — 7.0 — 7.0 — 7.0 — 7.0 — 7.0 — 7.0 — 7.0 —	
i. .031 to .016 mm (S)		19.5 — 19.5 — 19.5 — 19.5 — 19.5 — 19.5 — 19.5 — 19.5 —		16.0 — 16.0 — 16.0 — 16.0 — 16.0 — 16.0 — 16.0 — 16.0 —		12.0 — 12.0 — 12.0 — 12.0 — 12.0 — 12.0 — 12.0 — 12.0 —		13.0 — 13.0 — 13.0 — 13.0 — 13.0 — 13.0 — 13.0 — 13.0 —	
j. .016 to .008 mm (S)		7.0 — 7.0 — 7.0 — 7.0 — 7.0 — 7.0 — 7.0 — 7.0 —		9.5 — 9.5 — 9.5 — 9.5 — 9.5 — 9.5 — 9.5 — 9.5 —		8.0 — 8.0 — 8.0 — 8.0 — 8.0 — 8.0 — 8.0 — 8.0 —		9.0 — 9.0 — 9.0 — 9.0 — 9.0 — 9.0 — 9.0 — 9.0 —	
k. .008 to .004 mm (S)		9.0 — 9.0 — 9.0 — 9.0 — 9.0 — 9.0 — 9.0 — 9.0 —		10.5 — 10.5 — 10.5 — 10.5 — 10.5 — 10.5 — 10.5 — 10.5 —		10.0 — 10.0 — 10.0 — 10.0 — 10.0 — 10.0 — 10.0 — 10.0 —		9.7 — 9.7 — 9.7 — 9.7 — 9.7 — 9.7 — 9.7 — 9.7 —	
l. .004 to .002 mm (S)		8.0 — 8.0 — 8.0 — 8.0 — 8.0 — 8.0 — 8.0 — 8.0 —		8.0 — 8.0 — 8.0 — 8.0 — 8.0 — 8.0 — 8.0 — 8.0 —		8.5 — 8.5 — 8.5 — 8.5 — 8.5 — 8.5 — 8.5 — 8.5 —		8.3 — 8.3 — 8.3 — 8.3 — 8.3 — 8.3 — 8.3 — 8.3 —	
m. .002 to .001 mm (S)		7.0 — 7.0 — 7.0 — 7.0 — 7.0 — 7.0 — 7.0 — 7.0 —		3.0 — 3.0 — 3.0 — 3.0 — 3.0 — 3.0 — 3.0 — 3.0 —		4.5 — 4.5 — 4.5 — 4.5 — 4.5 — 4.5 — 4.5 — 4.5 —		5.0 — 5.0 — 5.0 — 5.0 — 5.0 — 5.0 — 5.0 — 5.0 —	
n. <.001 mm (S)		30.0 — 30.0 — 30.0 — 30.0 — 30.0 — 30.0 — 30.0 — 30.0 —		43.0 — 43.0 — 43.0 — 43.0 — 43.0 — 43.0 — 43.0 — 43.0 —		45.0 — 45.0 — 45.0 — 45.0 — 45.0 — 45.0 — 45.0 — 45.0 —		45.0 — 45.0 — 45.0 — 45.0 — 45.0 — 45.0 — 45.0 — 45.0 —	
o. Median Diameter (mm)		.0063 — .0030 — .0021 — .0020 — .0028 — .0025							
p. Sorting Coefficient									
q. Skewness									
r. Standard Deviation (mm)									
s. Sediment Type		Calc. silty clay		Calc. silty clay		Calc. silty clay		Calc. silty clay	
t. Dominant Minerals (S)		Calcite 40% Quartz 30% Ferromg 20% Biotite 20% Magnetite 20% Pyrite 10%		Calcite 40% Quartz 20% Ferromg 20% Biotite 20% Magnetite 20% Pyrite 10%		Calcite 60% Quartz 20% Ferromg 20% Biotite 10% Magnetite 10% Pyrite 5%		Calcite 60% Quartz 20% Ferromg 20% Biotite 10% Magnetite 10% Pyrite 5%	
Plus 32.5% feldspar									
u. Secondary Minerals (S)									
v. Calcium Carbonate (%)		11.76 3.46		21.95 13.15		12.77 9.86		1.38 7.44	
w. Organic Carbon (%)		—		—		—		—	
x. REMARKS									

### CORE ANALYSIS - JANUARY 1967 SEDIMENT SIZE AND COMPOSITION

NCEES - Pt 4 sample

25 April 1963

**CORE ANALYSIS SUMMARY SHEET**  
**SEDIMENT SIZE AND COMPOSITION**

ANALYST N CNEL - Pt. Hueneme

DATE 26 April 1963

NAVOCANO-BRISTOL-NA FORM 1-31

1. CRUISE NO.	Project	D-5	4. SAMPLE NO.	BS-2	7. TYPE CORE	Kullenberg, Gravity
2. LATITUDE	35 • 05'	"	5. DATE TAKEN (DAY, MO., YR.)	17/11/62	8. CORE LENGTH (cm)	183
3. LONGITUDE	122 • 45'	"	6. WATER DEPTH (m)	4316	9. CORE PENETRATION (cm)	Not recorded
10. LABORATORY NUMBER	BS-2-1	BS-2-2	BS-2-3	BS-2-4	BS-2-5	BS-2-6
11. SUBSAMPLE DEPTH IN CORE (cm)	0.0-7.6	15.2-22.9	30.5-38.1	45.7-53.3	61.0-68.4	76.2-83.8
12. COLOR (GSA ROCK COLOR CHART) [FIELD ] LAB DETERMINATION	5Y 5/2	10Y 4/2	5Y 5/2	10Y 4/2	5GY 4/1	10Y 4/2
13. ODOR	H <sub>2</sub> S	H <sub>2</sub> S	H <sub>2</sub> S	H <sub>2</sub> S	H <sub>2</sub> S	H <sub>2</sub> S
14. SIZE & COMPOSITION ANALYSIS						
a. > 4 mm (S)	0	—	0	—	0	—
b. .4 to .2 mm (S)	0	—	0	—	0	—
c. .2 to .1 mm (S)	0.2	—	0.2	—	0	—
d. .1 to .050 mm (S)	0.5	—	0.3	—	0.2	—
e. .500 to .250 mm (S)	0.5	—	0.2	—	0.3	—
f. .250 to .125 mm (S)	0.5	—	0.3	—	0.2	—
g. .125 to .062 mm (S)	0.2	—	0.3	—	0.3	—
h. .062 to .031 mm (S)	0.3	—	0.7	—	3.0	—
i. .031 to .016 mm (S)	10.0	—	6.0	—	9.0	—
j. .016 to .008 mm (S)	8.5	—	7.5	—	9.0	—
k. .008 to .004 mm (S)	12.5	—	13.5	—	13.0	—
l. .004 to .002 mm (S)	12.0	—	12.5	—	12.5	—
m. .002 to .001 mm (S)	7.0	—	9.5	—	12.5	—
n. < .001 mm (S)	47.8	—	49.0	—	40.0	—
o. Median Diameter (mm)	.0014	—	.0012	—	.0018	—
p. Sorting Coefficient	—	—	—	—	—	—
q. Skewness	—	—	—	—	—	—
r. Standard Deviation (mm)	—	—	—	—	—	—
s. Sediment Type	Silty clay	Calcareous clay	Calcareous clay	Calcareous clay	Calcareous clay	Sand-size clay
t. Dominant Minerals (S)	Calcite 60%	Calcite 80%	Biotite 50%	Biotite 50%	Quartz 30%	Quartz 40%
Plus 325 fraction	Quartz 30%	Quartz 10%	Quartz 20%	Ferrromg 20%	Ferrromg 20%	Calcare 20%
u. Secondary Minerals (S)	Biotite 10%	Biotite 10%	Calcare 20%	Ferrromg 10%	Biotite 20%	Biotite 20%
v. Calcium Carbonate (%)	9.33	14.18	12.29	9.85	8.17	6.86
w. Organic Carbon (%)	—	—	—	—	—	—
15. REMARKS	CaCO <sub>3</sub> (%) 1.70 MgCO <sub>3</sub> (%) 7.63	5.04 9.14	3.01 9.28	2.29 7.56	1.62 6.55	1.47 5.39

### CORE ANALYSIS: SUMMARY SHEET SEDIMENT SIZE AND COMPOSITION

### MCCL - By: Blasenmeier

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**CORE ANALYSIS SUMMARY SHEET**  
**SEDIMENT SIZE AND COMPOSITION**

ANALYST # NCEL - Pt. Hueneme

DATE 23 April 1963

NAVOCLAND-BR-310718-A Rev. 1-63

1. CRUISE NO. Project D-5	4. SAMPLE NO. BS-3	5. DATE TAKEN (DAY, MO., YR.) 19/11/62	6. CORE LENGTH (cm) 3968	7. TYPE CORE Kullenberg, gravity
2. LATITUDE 34° 53.5'	*	*	*	8. CORE LENGTH (cm) 107
3. LONGITUDE 122° 45'	*	*	*	9. CORE PENETRATION (cm) Not recorded
10. LABORATORY NUMBER	BS-3-1	BS-3-2	BS-3-3	BS-3-4
11. SUBSAMPLE DEPTH IN CORE (cm)	0.0-7.6	5.2-22.9	30.5-38.1	45.7-53.3
12. COLOR (GSA ROCK COLOR CHART) [ ] FIELD [ ] LAB DETERMINATION	5Y 3/2	10Y 4/2	5GY 4/1	10Y 4/2
13. ODOR	H <sub>2</sub> S	H <sub>2</sub> S	H <sub>2</sub> S	H <sub>2</sub> S
14. SIZE & COMPOSITION ANALYSIS				
a. > 4 mm (S)	0	—	0	—
b. .4 to .2 mm (S)	0	—	0	—
c. .2 to .1 mm (S)	0	—	0	—
d. .1 to .050 mm (S)	0.2	—	0	—
e. .050 to .025 mm (S)	0.3	—	0.2	—
f. .025 to .0125 mm (S)	0.2	—	0.3	—
g. .125 to .062 mm (S)	0.3	—	0.2	—
h. .062 to .031 mm (S)	1.5	—	0.3	—
i. .031 to .016 mm (S)	5.5	—	9.0	—
j. .016 to .008 mm (S)	6.5	—	8.0	—
k. .008 to .004 mm (S)	4.5	—	10.5	—
l. .004 to .002 mm (S)	20.0	—	12.0	—
m. .002 to .001 mm (S)	5.0	—	11.5	—
n. <.001 mm (S)	56.0	—	48.0	—
o. Median Diameter (mm)	.0003	—	.0014	—
p. Sorting Coefficient	—	—	—	—
q. Skewness	—	—	—	—
r. Standard Deviation (mm)	—	—	—	—
s. Sediment Type	Clay	Calcareous clay	Calcareous clay	Silty clay
t. Dominant Minerals (%)	Calcite 40% Quartz 30% Biotite 20% Hematite 10%	Biotite 40% Quartz 30% Calcareous 20% Hematite 10%	Ferrrom. 10% Hematite 10%	Quartz 40% Ferrrom. 20% Biotite 20% Hematite 10%
Plus 325 Fraction				
u. Secondary Minerals (%)	Ferromg 10%	Biotite 10%	Hematite 10%	Calcite 15% Hematite 5%
v. Calcium Carbonate (%)	7.56	—	12.08	—
w. Organic Carbon (%)	—	—	—	—
15. REMARKS				
CaCO <sub>3</sub> (%)	2.05	5.45	2.15	1.71
MgCO <sub>3</sub> (%)	5.51	6.63	8.10	7.26

CORAL ALMAGIS - MARINE COMPOSITION  
EDITIONNEMENT SIZZI AND COMPANY LTD.

MS. E. 1. - P. 4. Volume  
23 April 1963

**CORE ANALYSIS SUMMARY SHEET**  
**SEDIMENT SIZE AND COMPOSITION**

ANALYST IN NCEL - Pt. Hueneme

DATE 29 April 1963

NAVOCLAND-BRIGGS-NASA Rev. 1-63

1. CRUISE NO. Project D-5		4. SAMPLE NO. BS-4		5. DATE TAKEN (DAY, MO., YR.) 19/11/62		6. CORE LENGTH (cm) 3968		7. TYPE CORE Kullenberg, gravity	
2. LATITUDE 34 • 55'	"	3. LONGITUDE 122 • 27.5'	"	4. WATER DEPTH (m)	3968	5. CORE PENETRATION (cm)	3968	6. CORE LENGTH (cm)	188
10. LABORATORY NUMBER	BS-4-1	BS-4-2	BS-4-3	BS-4-4	BS-4-5	BS-4-6	BS-4-7	BS-4-8	BS-4-9
11. SUBSAMPLE DEPTH IN CORE (cm)	0.0-7.0	15.2-22.9	30.5-38.1	45.7-53.3	61.0-69.2	76.2-83.8	91.4-99.1	107.1-114	122-130
12. COLOR (GSA ROCK COLOR CHART) [ ] FIELD [ ] LAB DETERMINATION	10Y 4/2	10Y 4/2	10Y 4/2	10Y 4/2	10Y 4/2	10Y 4/2	10Y 4/2	10Y 4/2	10Y 4/2
13. ODOR	H <sub>2</sub> S	H <sub>2</sub> S	H <sub>2</sub> S	H <sub>2</sub> S	H <sub>2</sub> S	H <sub>2</sub> S	H <sub>2</sub> S	H <sub>2</sub> S	H <sub>2</sub> S
14. SIZE & COMPOSITION ANALYSIS									
a.	> 4 mm (S)	0	—	0	—	0	—	0	—
b.	.4 to .2 mm (S)	0	—	0	—	0	—	0	—
c.	.2 to .1 mm (S)	0	—	0	—	0	—	0	—
d.	.1 to .050 mm (S)	0	—	0	—	0	—	0	—
e.	.500 to .250 mm (S)	0.3	—	0.2	—	0.2	—	0	—
f.	.250 to .125 mm (S)	0.2	—	0.3	—	0.3	—	0.1	—
g.	.125 to .062 mm (S)	0.2	—	0.5	—	0.2	—	0.2	—
h.	.062 to .031 mm (S)	1.5	—	3.0	—	3.3	—	1.7	—
i.	.031 to .016 mm (S)	7.8	—	12.0	—	16.0	—	9.0	—
j.	.016 to .008 mm (S)	10.0	—	9.0	—	12.0	—	14.0	—
k.	.008 to .004 mm (S)	13.0	—	12.5	—	13.0	—	9.0	—
l.	.004 to .002 mm (S)	9.0	—	11.5	—	10.0	—	5.5	—
m.	.002 to .001 mm (S)	10.0	—	7.0	—	4.0	—	5.0	—
n.	< .001 mm (S)	48.0	—	44.0	—	41.0	—	55.5	—
o. Median Diameter (mm)	.0013	—	.0019	—	.0029	—	.0005	—	.0021
p. Sorting Coefficient	—	—	—	—	—	—	—	—	—
q. Skewness	—	—	—	—	—	—	—	—	—
r. Standard Deviation (mm)	—	—	—	—	—	—	—	—	—
s. Sediment Type	Clay	Calcareous clay	Calcareous clay	Calcareous clay	Calcareous clay	Calcareous clay	Calcareous clay	Calcareous clay	Calcareous clay
t. Dominant Minerals	CaCO <sub>3</sub>	70%	Quartz	80%	Quartz	70%	Quartz	60%	Quartz
Plus 32.5% fraction	Quartz	20%	Calcite	15%	Calcite	20%	Quartz	30%	Calcite
u. Secondary Minerals	Biotite	10%	Biotite	5%	Ferronite	20%	Biotite	10%	Ferronite
v. Calcium Carbonate (%)	Hematite	(S)	Hematite	Hematite	Hematite	10%	Ferronite	Biotite	Ferronite
w. Organic Carbon (%)	(S)	9.89	10.68	—	16.41	—	13.05	—	8.71
x.	—	—	—	—	—	—	—	—	—
15. REMARKS	CaCO <sub>3</sub> (%)	2.06	2.82	7.63	8.04	3.93	4.13		
	MgCO <sub>3</sub> (%)	7.83	7.86	8.78	5.01	4.78	7.10		

**CORE ANALYSIS SUMMARY SHEET**

ANALYSIS OF THE CHANGES

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**CORE ANALYSIS SUMMARY SHEET**  
**SEDIMENT SIZE AND COMPOSITION**

ANALYST # NCEL - Pt. Hueneme

DATE 10 April 1963

NAVOCAND-BR31978-A Rev. 1-63)

1. CRUISE NO. Project D-5	4. SAMPLE NO. BS-5	5. DATE TAKEN (DAY, MO., YR.) 19/11/62	6. CORE LENGTH (cm) 216
2. LATITUDE 34 ° 53'	7. WATER DEPTH (m) 3934	8. CORE PENETRATION (cm) Not recorded	
3. LONGITUDE 122 ° 14.3'			
10. LABORATORY NUMBER BS-5-1	BS-5-2	BS-5-3	BS-5-4
11. SUBSAMPLE DEPTH IN CORE (cm) 5.1-11.5	19.5-26.7	49.6-57.2	66.0-72.4
12. COLOR (GSA ROCK COLOR CHART) 5Y 5/2	10Y 4/2	5Y 5/2	10Y 4/2
13. FIELD <input checked="" type="checkbox"/> LAB DETERMINATION	II	II	II
13. ODOR	H <sub>2</sub> S	H <sub>2</sub> S	H <sub>2</sub> S
14. SIZE & COMPOSITION ANALYSIS			
a. > 4 mm (S)	0	—	0
b. 4 to 2 mm (S)	0	—	0
c. 2 to 1 mm (S)	0	—	0
d. 1 to .500 mm (S)	0	—	0
e. .500 to .250 mm (S)	0	—	0.1
f. .250 to .125 mm (S)	0.2	—	0.1
g. .125 to .062 mm (S)	0.3	—	0.8
h. .062 to .031 mm (S)	3.5	—	2.5
i. .031 to .016 mm (S)	11.0	—	9.5
j. .016 to .008 mm (S)	6.0	—	10.0
k. .008 to .004 mm (S)	11.0	—	11.0
l. .004 to .002 mm (S)	12.0	—	12.0
m. .002 to .001 mm (S)	10.0	—	10.0
n. <.001 mm (S)	46.0	—	44.0
o. Median Diameter (mm)	.0014	—	.0017
p. Sorting Coefficient	—	—	—
q. Skewness	—	—	—
r. Standard Deviation (mm)	—	—	—
s. Sediment Type Silty clay	Calc. silty clay	Calc. silty clay	Silty clay
t. Dominant Minerals 15% Quartz 45% Calcite 30% Quartz 15% Ferromg	Calcareous Quartz Ferromg	Calcareous Quartz Ferromg	Calcareous Quartz Ferromg
Plus 32.5% fraction	10% Biotite	10% Biotite	10% Biotite
u. Secondary Minerals (S) Biotite 10% Wood fragments	Biotite	Biotite	Muscovite
v. Calcium Carbonate (%) 8.00	8.16	17.54	13.63
w. Organic Content (%) —	—	—	—
x. REMARKS			
CaCO <sub>3</sub> (%) 1.00	0.92	10.04	4.65
MgCO <sub>3</sub> (%) 7.00	7.24	7.50	8.88
		7.12	7.01
			1.02
			8.82
			8.03
			7.01

**CORE ANALYSIS - SUMMARY SHEET**  
**SEDIMENT SIZE AND COMPOSITION**

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**CORE ANALYSIS SUMMARY SHEET**  
**SEDIMENT SIZE AND COMPOSITION**

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ANALYSIS OF NCEL - Pt. Huene

dan 19 April 1963

**CORE ANALYSIS - SUMMARY SHEET**  
**SEDIMENT SIZE AND COMPOSITION**

DAVE TAKES SEDIMENT SAMPLES

1. Core No.	Project	D-5	4. Sample No.	35-6	7. Core length (in.)	11.9
2. Latitude	34° 55'	5. Date	20/11/62	8. Core length (in.)	11.7	
3. Longitude	121° 57'	9. Depth (in.)	7.49	9. Core length (in.)	11.7	
10. Location	Wells	11. Sediment depth (in.)	0.6-1.0	12. Sediment depth (in.)	0.2	
11. Sediment depth in core (in.)	0.6-1.0	13. Color (Munsell)	5Y 4/4	14. Description	Very fine sand	
12. Color (Munsell)	5Y 4/4	15. Gravel	0.01-0.05	16. Clay	0.01-0.05	
13. Description	Very fine sand	17. Silt	0.01-0.05	18. Sand	0.01-0.05	
14. Silt	0.01-0.05	19. Clay	0.01-0.05	20. Gravel	0.01-0.05	
15. Clay	0.01-0.05	21. Silt	0.01-0.05	22. Sand	0.01-0.05	
16. Mineral composition analysis	17. Silt	18. Clay	19. Silt	20. Sand	21. Gravel	
17. Silt	0.01-0.05	22. Silt	0.01-0.05	23. Silt	0.01-0.05	
18. Clay	0.01-0.05	24. Silt	0.01-0.05	25. Silt	0.01-0.05	
19. Silt	0.01-0.05	26. Silt	0.01-0.05	27. Silt	0.01-0.05	
20. Sand	0.01-0.05	28. Silt	0.01-0.05	29. Silt	0.01-0.05	
21. Gravel	0.01-0.05	30. Silt	0.01-0.05	31. Silt	0.01-0.05	
22. Silt	0.01-0.05	32. Silt	0.01-0.05	33. Silt	0.01-0.05	
23. Silt	0.01-0.05	34. Silt	0.01-0.05	35. Silt	0.01-0.05	
24. Silt	0.01-0.05	36. Silt	0.01-0.05	37. Silt	0.01-0.05	
25. Silt	0.01-0.05	38. Silt	0.01-0.05	39. Silt	0.01-0.05	
26. Silt	0.01-0.05	40. Silt	0.01-0.05	41. Silt	0.01-0.05	
27. Silt	0.01-0.05	42. Silt	0.01-0.05	43. Silt	0.01-0.05	
28. Silt	0.01-0.05	44. Silt	0.01-0.05	45. Silt	0.01-0.05	
29. Silt	0.01-0.05	46. Silt	0.01-0.05	47. Silt	0.01-0.05	
30. Silt	0.01-0.05	48. Silt	0.01-0.05	49. Silt	0.01-0.05	
31. Silt	0.01-0.05	50. Silt	0.01-0.05	51. Silt	0.01-0.05	
32. Silt	0.01-0.05	52. Silt	0.01-0.05	53. Silt	0.01-0.05	
33. Silt	0.01-0.05	54. Silt	0.01-0.05	55. Silt	0.01-0.05	
34. Silt	0.01-0.05	56. Silt	0.01-0.05	57. Silt	0.01-0.05	
35. Silt	0.01-0.05	58. Silt	0.01-0.05	59. Silt	0.01-0.05	
36. Silt	0.01-0.05	60. Silt	0.01-0.05	61. Silt	0.01-0.05	
37. Silt	0.01-0.05	62. Silt	0.01-0.05	63. Silt	0.01-0.05	
38. Silt	0.01-0.05	64. Silt	0.01-0.05	65. Silt	0.01-0.05	
39. Silt	0.01-0.05	66. Silt	0.01-0.05	67. Silt	0.01-0.05	
40. Silt	0.01-0.05	68. Silt	0.01-0.05	69. Silt	0.01-0.05	
41. Silt	0.01-0.05	70. Silt	0.01-0.05	71. Silt	0.01-0.05	
42. Silt	0.01-0.05	72. Silt	0.01-0.05	73. Silt	0.01-0.05	
43. Silt	0.01-0.05	74. Silt	0.01-0.05	75. Silt	0.01-0.05	
44. Silt	0.01-0.05	76. Silt	0.01-0.05	77. Silt	0.01-0.05	
45. Silt	0.01-0.05	78. Silt	0.01-0.05	79. Silt	0.01-0.05	
46. Silt	0.01-0.05	80. Silt	0.01-0.05	81. Silt	0.01-0.05	
47. Silt	0.01-0.05	82. Silt	0.01-0.05	83. Silt	0.01-0.05	
48. Silt	0.01-0.05	84. Silt	0.01-0.05	85. Silt	0.01-0.05	
49. Silt	0.01-0.05	86. Silt	0.01-0.05	87. Silt	0.01-0.05	
50. Silt	0.01-0.05	88. Silt	0.01-0.05	89. Silt	0.01-0.05	
51. Silt	0.01-0.05	90. Silt	0.01-0.05	91. Silt	0.01-0.05	
52. Silt	0.01-0.05	92. Silt	0.01-0.05	93. Silt	0.01-0.05	
53. Silt	0.01-0.05	94. Silt	0.01-0.05	95. Silt	0.01-0.05	
54. Silt	0.01-0.05	96. Silt	0.01-0.05	97. Silt	0.01-0.05	
55. Silt	0.01-0.05	98. Silt	0.01-0.05	99. Silt	0.01-0.05	
56. Silt	0.01-0.05	100. Silt	0.01-0.05	101. Silt	0.01-0.05	
57. Silt	0.01-0.05	102. Silt	0.01-0.05	103. Silt	0.01-0.05	
58. Silt	0.01-0.05	104. Silt	0.01-0.05	105. Silt	0.01-0.05	
59. Silt	0.01-0.05	106. Silt	0.01-0.05	107. Silt	0.01-0.05	
60. Silt	0.01-0.05	108. Silt	0.01-0.05	109. Silt	0.01-0.05	
61. Silt	0.01-0.05	110. Silt	0.01-0.05	111. Silt	0.01-0.05	
62. Silt	0.01-0.05	112. Silt	0.01-0.05	113. Silt	0.01-0.05	
63. Silt	0.01-0.05	114. Silt	0.01-0.05	115. Silt	0.01-0.05	
64. Silt	0.01-0.05	116. Silt	0.01-0.05	117. Silt	0.01-0.05	
65. Silt	0.01-0.05	118. Silt	0.01-0.05	119. Silt	0.01-0.05	
66. Silt	0.01-0.05	120. Silt	0.01-0.05	121. Silt	0.01-0.05	
67. Silt	0.01-0.05	122. Silt	0.01-0.05	123. Silt	0.01-0.05	
68. Silt	0.01-0.05	124. Silt	0.01-0.05	125. Silt	0.01-0.05	
69. Silt	0.01-0.05	126. Silt	0.01-0.05	127. Silt	0.01-0.05	
70. Silt	0.01-0.05	128. Silt	0.01-0.05	129. Silt	0.01-0.05	
71. Silt	0.01-0.05	130. Silt	0.01-0.05	131. Silt	0.01-0.05	
72. Silt	0.01-0.05	132. Silt	0.01-0.05	133. Silt	0.01-0.05	
73. Silt	0.01-0.05	134. Silt	0.01-0.05	135. Silt	0.01-0.05	
74. Silt	0.01-0.05	136. Silt	0.01-0.05	137. Silt	0.01-0.05	
75. Silt	0.01-0.05	138. Silt	0.01-0.05	139. Silt	0.01-0.05	
76. Silt	0.01-0.05	140. Silt	0.01-0.05	141. Silt	0.01-0.05	
77. Silt	0.01-0.05	142. Silt	0.01-0.05	143. Silt	0.01-0.05	
78. Silt	0.01-0.05	144. Silt	0.01-0.05	145. Silt	0.01-0.05	
79. Silt	0.01-0.05	146. Silt	0.01-0.05	147. Silt	0.01-0.05	
80. Silt	0.01-0.05	148. Silt	0.01-0.05	149. Silt	0.01-0.05	
81. Silt	0.01-0.05	150. Silt	0.01-0.05	151. Silt	0.01-0.05	
82. Silt	0.01-0.05	152. Silt	0.01-0.05	153. Silt	0.01-0.05	
83. Silt	0.01-0.05	154. Silt	0.01-0.05	155. Silt	0.01-0.05	
84. Silt	0.01-0.05	156. Silt	0.01-0.05	157. Silt	0.01-0.05	
85. Silt	0.01-0.05	158. Silt	0.01-0.05	159. Silt	0.01-0.05	
86. Silt	0.01-0.05	160. Silt	0.01-0.05	161. Silt	0.01-0.05	
87. Silt	0.01-0.05	162. Silt	0.01-0.05	163. Silt	0.01-0.05	
88. Silt	0.01-0.05	164. Silt	0.01-0.05	165. Silt	0.01-0.05	
89. Silt	0.01-0.05	166. Silt	0.01-0.05	167. Silt	0.01-0.05	
90. Silt	0.01-0.05	168. Silt	0.01-0.05	169. Silt	0.01-0.05	
91. Silt	0.01-0.05	170. Silt	0.01-0.05	171. Silt	0.01-0.05	
92. Silt	0.01-0.05	172. Silt	0.01-0.05	173. Silt	0.01-0.05	
93. Silt	0.01-0.05	174. Silt	0.01-0.05	175. Silt	0.01-0.05	
94. Silt	0.01-0.05	176. Silt	0.01-0.05	177. Silt	0.01-0.05	
95. Silt	0.01-0.05	178. Silt	0.01-0.05	179. Silt	0.01-0.05	
96. Silt	0.01-0.05	180. Silt	0.01-0.05	181. Silt	0.01-0.05	
97. Silt	0.01-0.05	182. Silt	0.01-0.05	183. Silt	0.01-0.05	
98. Silt	0.01-0.05	184. Silt	0.01-0.05	185. Silt	0.01-0.05	
99. Silt	0.01-0.05	186. Silt	0.01-0.05	187. Silt	0.01-0.05	
100. Silt	0.01-0.05	188. Silt	0.01-0.05	189. Silt	0.01-0.05	
101. Silt	0.01-0.05	190. Silt	0.01-0.05	191. Silt	0.01-0.05	
102. Silt	0.01-0.05	192. Silt	0.01-0.05	193. Silt	0.01-0.05	
103. Silt	0.01-0.05	194. Silt	0.01-0.05	195. Silt	0.01-0.05	
104. Silt	0.01-0.05	196. Silt	0.01-0.05	197. Silt	0.01-0.05	
105. Silt	0.01-0.05	198. Silt	0.01-0.05	199. Silt	0.01-0.05	
106. Silt	0.01-0.05	200. Silt	0.01-0.05	201. Silt	0.01-0.05	
107. Silt	0.01-0.05	202. Silt	0.01-0.05	203. Silt	0.01-0.05	
108. Silt	0.01-0.05	204. Silt	0.01-0.05	205. Silt	0.01-0.05	
109. Silt	0.01-0.05	206. Silt	0.01-0.05	207. Silt	0.01-0.05	
110. Silt	0.01-0.05	208. Silt	0.01-0.05	209. Silt	0.01-0.05	
111. Silt	0.01-0.05	210. Silt	0.01-0.05	211. Silt	0.01-0.05	
112. Silt	0.01-0.05	212. Silt	0.01-0.05	213. Silt	0.01-0.05	
113. Silt	0.01-0.05	214. Silt	0.01-0.05	215. Silt	0.01-0.05	
114. Silt	0.01-0.05	216. Silt	0.01-0.05	217. Silt	0.01-0.05	
115. Silt	0.01-0.05	218. Silt	0.01-0.05	219. Silt	0.01-0.05	
116. Silt	0.01-0.05	220. Silt	0.01-0.05	221. Silt	0.01-0.05	
117. Silt	0.01-0.05	222. Silt	0.01-0.05	223. Silt	0.01-0.05	
118. Silt	0.01-0.05	224. Silt	0.01-0.05	225. Silt	0.01-0.05	
119. Silt	0.01-0.05	226. Silt	0.01-0.05	227. Silt	0.01-0.05	
120. Silt	0.01-0.05	228. Silt	0.01-0.05	229. Silt	0.01-0.05	
121. Silt	0.01-0.05	230. Silt	0.01-0.05	231. Silt	0.01-0.05	
122. Silt	0.01-0.05	232. Silt	0.01-0.05	233. Silt	0.01-0.05	
123. Silt	0.01-0.05	234. Silt	0.01-0.05	235. Silt	0.01-0.05	
124. Silt	0.01-0.05	236. Silt	0.01-0.05	237. Silt	0.01-0.05	
125. Silt	0.01-0.05	238. Silt	0.01-0.05	239. Silt	0.01-0.05	
126. Silt	0.01-0.05	240. Silt	0.01-0.05	241. Silt	0.01-0.05	
127. Silt	0.01-0.05	242. Silt	0.01-0.05	243. Silt	0.01-0.05	
128. Silt	0.01-0.05	244. Silt	0.01-0.05	245. Silt	0.01-0.05	
129. Silt	0.01-0.05	246. Silt	0.01-0.05	247. Silt	0.01-0.05	
130. Silt	0.01-0.05	248. Silt	0.01-0.05	249. Silt	0.01-0.05	
131. Silt	0.01-0.05	250. Silt	0.01-0.05	251. Silt	0.01-0.05	
132. Silt	0.01-0.05	252. Silt	0.01-0.05	253. Silt	0.01-0.05	
133. Silt	0.01-0.05	254. Silt	0.01-0.05	255. Silt	0.01-0.05	
134. Silt	0.01-0.05	256. Silt	0.01-0.05	257. Silt	0.01-0.05	
135. Silt	0.01-0.05	258. Silt	0.01-0.05	259. Silt	0.01-0.05	
136. Silt	0.01-0.05	260. Silt	0.01-0.05	261. Silt	0.01-0.05	
137. Silt	0.01-0.05	262. Silt	0.01-0.05	263. Silt	0.01-0.05	
138. Silt	0.01-0.05	264. Silt	0.01-0.05	265. Silt	0.01-0.05	
139. Silt	0.01-0.05	266. Silt	0.01-0.05	267. Silt	0.01-0.05	
140. Silt	0.01-0.05	268. Silt	0.01-0.05	269. Silt	0.01-0.05	
141. Silt	0.01-0.05	270. Silt	0.01-0.05	271. Silt	0.01-0.05	
142. Silt	0.01-0.05	272. Silt	0.01-0.05	273. Silt	0.01-0.05	
143. Silt	0.01-0.05	274. Silt	0.01-0.05	275. Silt	0.01-0.05	
144. Silt	0.01-0.05	276. Silt	0.01-0.05	277. Silt	0.01-0.05	
145. Silt	0.01-0.05	278. Silt	0.01-0.05	279. Silt	0.01-0.05	
146. Silt	0.01-0.05	280. Silt	0.01-0.05	281. Silt	0.01-0.05	
147. Silt	0.01-0.05	282. Silt	0.01-0.05	283. Silt	0.01-0.05	
148. Silt	0.01-0.05	284. Silt	0.01-0.05	285. Silt	0.01-0.05	
149. Silt	0.01-0.05	286. Silt	0.01-0.0			

**CORE ANALYSIS SUMMARY SHEET**  
**SEDIMENT SIZE AND COMPOSITION**

ANALYST W. Pt. Huenecke

NAVOCLAND-BP-1971B-A Form 1-63

DATE 25 April 1963

1. CRUISE NO. Project D-5		4. SAMPLE NO. BS-7		7. TYPE CORE Kullenberg, gravity	
2. LATITUDE 34 ° 42'	"	5. DATE TAKEN (DAY, MO., YR.) 120/11/62	"	8. CORE LENGTH (cm)	178
3. LONGITUDE 121 ° 57.3'	"	6. WATER DEPTH (m)	3930	9. CORE PENETRATION (cm)	Not recorded
10. LABORATORY NUMBER	BS-7-1	BS-7-2	BS-7-3	BS-7-4	BS-7-5
11. SUBSAMPLE DEPTH IN CORE (cm)	0.0-7.6	15.2-22.9	30.5-38.1	45.7-53.3	61.0-68.6
12. COLOR (GSA ROCK COLOR CHART)	10Y 4/2	10Y 4/2	10Y 4/2	10Y 4/2	10Y 4/2
13. FIELD <input checked="" type="checkbox"/> LAB DETERMINATION	□	□	□	□	□
13. OODR	H <sub>2</sub> S	H <sub>2</sub> S	H <sub>2</sub> S	H <sub>2</sub> S	H <sub>2</sub> S
14. SIZE & COMPOSITION ANALYSIS					
a. > 4 mm (S)	0	0	0	0	0
b. 4 to 2 mm (S)	0	0	0	0	0
c. 2 to 1 mm (S)	0	0	0	0	0
d. 1 to .500 mm (S)	0	0	0	0	0
e. .500 to .250 mm (S)	0.2	0.1	0.1	0.1	0.1
f. .250 to .125 mm (S)	0.3	0.1	0.1	0.3	0.1
g. .125 to .062 mm (S)	0.3	0.8	0.5	0.4	0.8
h. .062 to .031 mm (S)	2.2	1.0	2.3	2.2	3.0
i. .031 to .016 mm (S)	10.0	6.0	7.0	8.0	8.0
j. .016 to .008 mm (S)	7.0	8.0	9.0	9.0	9.0
k. .008 to .004 mm (S)	12.0	13.0	14.0	12.0	14.0
l. .004 to .002 mm (S)	15.0	15.0	14.0	13.0	31.0
m. .002 to .001 mm (S)	16.0	15.0	8.0	13.0	24.0
n. <.001 mm (S)	37.0	41.0	45.0	42.0	10.0
o. Median Diameter (mm)	.0016	—	.0017	.0017	.0028
p. Sorting Coefficient	—	—	—	—	—
q. Skewness	—	—	—	—	—
r. Standard Deviation (mm)	—	—	—	—	—
s. Sediment Type	gritty clay	calc. silty clay	calc. silty clay	calc. silty clay	calc. silty clay
t. Dominant Minerals (S)	Calcite 80% Quartz 20%	Calcite 40% Quartz 30% Ferrung 20%	Calcite 60% Quartz 40% Biotite 10%	Calcite 70% Quartz 30% Muscovite 20%	Calcite 50% Quartz 30% Ferrung 10%
Plus 325 fraction	Hematite	Biotite	Biotite	Biotite	Biotite
u. Secondary Minerals (S)	Biotite	10%	—	—	10%
v. Calcium Carbonate (%)	8.54	8.24	11.81	15.58	9.15
w. Organic Carbon (%)	—	—	—	—	—
15. REMARKS	1.76 6.78	1.42 6.82	4.74 7.07	8.30 7.28	2.75 6.40
					2.69 6.85

**CORE ANALYSIS SUMMARY SHEET**  
**SEDIMENT SIZE AND COMPOSITION**

NO. 100-100-100-100-100-100-100

ANALYZED = 100% - Pt. 100%

DATE = 15 April 1970

100%

100%

100%

100%

100%

100%

100%

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**CORE ANALYSIS SUMMARY SHEET**  
**SEDIMENT SIZE AND COMPOSITION**

ANALYST # NCEL - Pt. Huene

DATE 29 April 1963

NAVOCANO-BATANGAS Bank 1-61

1. CRUISE NO.	Project D-5	4. SAMPLE NO.	BS-8	7. TYPE CORE	Kullenberg, gravity
2. LATITUDE	34° 36'.3'	5. DATE TAKEN (DAY, MO., YR.)	21/11/62	8. CORE LENGTH (cm)	279
3. LONGITUDE	122° 22'	6. WATER DEPTH (m)	3749	9. CORE PENETRATION (cm)	Not recorded
10. LABORATORY NUMBER	BS-8-1	BS-8-2	BS-8-3	BS-8-4	BS-8-5
11. SUBSAMPLE DEPTH IN CORE (cm)	0.0-7.6	30.5-38.1	45.7-52.3	61.0-68.6	76.2-83.8
12. COLOR (GSA ROCK COLOR CHART) [FIELD [LAB DETERMINATION]	[AY 4/2	[AY 4/2	[AY 4/2	[AY 4/2	[AY 4/2
13. ODR	H <sub>2</sub> S	H <sub>2</sub> S	H <sub>2</sub> S	H <sub>2</sub> S	H <sub>2</sub> S
14. SIZE & COMPOSITION ANALYSIS					
a. > 4 mm (S)	0	—	0	—	0
b. .4 to .2 mm (S)	0	—	0	—	0
c. .2 to .1 mm (S)	0	—	0	—	0
d. .1 to .050 mm (S)	0	—	0	—	0
e. .050 to .250 mm (S)	0.1	—	0.1	—	0.1
f. .250 to .125 mm (S)	0.2	—	0.2	—	0.1
g. .125 to .062 mm (S)	0.5	—	0.4	—	0.1
h. .062 to .031 mm (S)	0.7	—	0.3	—	0.7
i. .031 to .016 mm (S)	1.5	—	2.0	—	2.0
j. .016 to .008 mm (S)	5.0	—	7.0	—	8.0
k. .008 to .004 mm (S)	15.0	—	15.0	—	13.0
l. .004 to .002 mm (S)	12.0	—	8.0	—	13.0
m. .002 to .001 mm (S)	7.0	—	6.0	—	6.5
n. <.001 mm (S)	58.0	—	61.0	—	54.0
o. Median Diameter (mm)	.0002	—	.0017	—	.0006
p. Sorting Coefficient	—	—	—	—	—
q. Skewness	—	—	—	—	—
r. Standard Deviation (mm)	—	—	—	—	—
s. Sediment Type	Clay	Calcareous clay	Clay	Clay	Calcareous clay
t. Dominant Minerals	(S)	Calcite 70%	Calcite 60%	Calcite 40%	Calcite 50%
Plus 32% Fract. of	Ferruginous	Quartz 20%	Quartz 20%	Quartz 20%	Quartz 20%
u. Secondary Minerals	(S)	Ferruginous Hematite Biotite	Ferruginous Hematite Biotite	Ferruginous Hematite Biotite	Ferruginous Hematite Biotite
v. Calcium Carbonate (%)	9.57	17.48	9.69	9.47	9.80
w. Organic Carbon (%)	—	—	—	—	—
x. REMARKS					
CACO <sub>3</sub> (%)	1.77	10.21	2.52	2.13	2.39
MgCO <sub>3</sub> (%)	7.80	7.27	7.17	7.34	7.60

**CONDENSING SIZE AND COMPOSITION  
CONTRACTUAL SUMMARY SHEET**

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MATERIALS AND METHODS

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1. Name	2. Date of birth	3. Sex	4. Age	5. Weight	6. Height	7. Blood group	8. Family history	9. Previous treatment	10. Present illness	11. Present condition	12. General condition	13. Mental condition	14. Social condition	15. Remarks
1. L. Singh	2. 1961-01-01	3. M.	4. 18	5. 55	6. 5'2"	7. O	8. No	9. No	10. No	11. No	12. Good	13. Normal	14. Good	15. No
2. S. K. Singh	3. 1961-01-01	4. M.	5. 55	6. 5'2"	7. O	8. No	9. No	10. No	11. No	12. Good	13. Normal	14. Good	15. No	
3. P. K. Singh	4. 1961-01-01	5. M.	6. 55	7. O	8. No	9. No	10. No	11. No	12. Good	13. Normal	14. Good	15. No		
4. J. K. Singh	5. 1961-01-01	6. M.	7. 55	8. O	9. No	10. No	11. No	12. Good	13. Normal	14. Good	15. No			
5. R. K. Singh	6. 1961-01-01	7. M.	8. 55	9. O	10. No	11. No	12. Good	13. Normal	14. Good	15. No				
6. D. K. Singh	7. 1961-01-01	8. M.	9. 55	10. O	11. No	12. Good	13. Normal	14. Good	15. No					
7. G. K. Singh	8. 1961-01-01	9. M.	10. 55	11. O	12. Good	13. Normal	14. Good	15. No						
8. B. K. Singh	9. 1961-01-01	10. M.	11. 55	12. O	13. No	14. No	15. No							
9. C. K. Singh	10. 1961-01-01	11. M.	12. 55	13. O	14. No	15. No								
10. D. K. Singh	11. 1961-01-01	12. M.	13. 55	14. O	15. No									
11. E. K. Singh	12. 1961-01-01	13. M.	14. 55	15. O										
12. F. K. Singh	13. 1961-01-01	14. M.	15. 55											
13. G. K. Singh	14. 1961-01-01	15. M.												
14. H. K. Singh	15. 1961-01-01													
15. I. K. Singh	16. 1961-01-01													
16. J. K. Singh	17. 1961-01-01													
17. K. K. Singh	18. 1961-01-01													
18. L. K. Singh	19. 1961-01-01													
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20. N. K. Singh	21. 1961-01-01													
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227. M. K. Singh	228. 1961-01-01													
228. N. K. Singh	229. 1961-01-01													
229. O. K. Singh</														

**CORE ANALYSIS SUMMARY SHEET**  
**SEDIMENT SIZE AND COMPOSITION**

ANALYST N. NCEL - Pt. Hueneme

DATE 29 April 1963

NAVOCLAND-BR-3127/SEA Rev 1-63

1. CRUISE NO.	Project D-5	4. SAMPLE NO.	BS-8	continued	7. TYPE CORE Kullenberg, gravity
2. LATITUDE	34 • 36.3°	5. DATE TAKEN (DAY, MO. YR.)	2/17/17/62	8. CORE LENGTH (cm)	279
3. LONGITUDE	122 • 22°	6. WATER DEPTH (m)	3749	9. CORE PENETRATION (cm)	Not recorded
10. LABORATORY NUMBER	BS-8-14	BS-8-15	BS-8-16	BS-8-17	
11. SUBSAMPLE DEPTH IN CORE (cm)	198-206	213-221	229-236	244-251	
12. COLOR 16SA ROCK COLOR CHART [ ] FIELD [ ] LAB DETERMINATION	10Y4/2	10Y4/2	10Y4/2	10Y4/2	
13. ODOR	H <sub>2</sub> S	H <sub>2</sub> S	H <sub>2</sub> S	H <sub>2</sub> S	
14. SIZE & COMPOSITION ANALYSIS					
a. > 4 mm (S)	—	0	—	0	
b. .4 to .2 mm (S)	—	0	—	0	
c. .2 to .1 mm (S)	—	0	—	0	
d. .1 to .050 mm (S)	—	0	—	0	
e. .500 to .250 mm (S)	—	0.1	—	0.1	
f. .250 to .125 mm (S)	—	0.2	—	0.1	
g. .125 to .062 mm (S)	—	0.4	—	0.3	
h. .062 to .031 mm (S)	—	0.5	—	2.0	
i. .031 to .016 mm (S)	—	1.8	—	7.5	
j. .016 to .008 mm (S)	—	8.0	—	9.0	
k. .008 to .004 mm (S)	—	13.0	—	15.0	
l. .004 to .002 mm (S)	—	12.0	—	13.0	
m. .002 to .001 mm (S)	—	7.0	—	6.0	
n. < .001 mm (S)	—	57.0	—	47.0	
o. Median Diameter (mm)	—	.0004	—	.0017	
p. Sorting Coefficient	—	—	—	—	
q. Skewness	—	—	—	—	
r. Standard Deviation (mm)	—	—	—	—	
s. Sediment Type	Calcareous clay	Silty clay			
t. Dominant Minerals	Quartz	60%	Calcite	70%	
Plus 32.5% fraction	Calcite	40%	Quartz	20%	
u. Secondary Minerals	Hematite		Ferric	10%	
v. Calcium Carbonate (%)	—	25.42	—	8.74	
w. Organic Carbon (%)	—	—	—	—	
15. REMARKS	CaCO <sub>3</sub> (%)	19.58	2.05		
	MgCO <sub>3</sub> (%)	5.84	6.69		

## CORE ANALYSIS COMPARISON SINTERING SIZE AND COMPOSITION

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DATE 29 Apr 1963

17. *Urtica dioica* L. (Urticaceae) - *Common Nettle*

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Chap. 125 Section

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*Mr. Smith's father*      (81)      —  
years

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**CORE ANALYSIS SUMMARY SHEET**  
**SEDIMENT SIZE AND COMPOSITION**

ANALYST IN NCEL - Pt. Hueneme

DATE 30 April 1963

NAVOCAND-BR-NOMINA Rev. 1-63

1. CRUISE NO. Project D-5	4. SAMPLE NO. BS-9	7. TYPE CORE Kullenberg, gravity
2. LATITUDE 34° 38.5'	5. DATE TAKEN (DAY, MO., YR.) 21/11/62	6. CORE LENGTH (cm) 231
3. LONGITUDE 122° 44.9'	6. WATER DEPTH (m) 3996	9. CORE PENETRATION (cm) Not recorded
10. LABORATORY NUMBER	BS-9-1 BS-9-2 BS-9-3 BS-9-4 BS-9-5 BS-9-6 BS-9-7 BS-9-8 BS-9-9 BS-9-10 BS-9-11 BS-9-12 BS-9-13	
11. SUBSAMPLE DEPTH IN CORE (cm)	0.0-7.6 15.2-22.9 30.5-38.1 45.7-53.3 61.0-68.6 74.2-81.8 91.4-99.1 107.1-114.1 122.1-130.1 137.1-145.1 152.1-160.1 168.1-175.1 183.1-191.1	
12. COLOR (GSA ROCK COLOR CHART) FIELD [ ] LAB DETERMINATION	GY5/2 10Y4/2	
13. OODR	H2S	
14. SIZE & COMPOSITION ANALYSIS		
1. > 4 mm (S)	0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0	
2. .4 to .2 mm (S)	0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0	
3. .2 to .1 mm (S)	0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0	
4. .1 to .05 mm (S)	0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0	
5. .05 to .025 mm (S)	0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1	
6. .250 to .125 mm (S)	0.2 - 0.3 - 0.2 - 0.2 - 0.1 - 0.2 - 0.1 - 0.2 - 0.1 - 0.2 - 0.3 - 0.3	
7. .125 to .062 mm (S)	0.5 - 0.4 - 0.4 - 0.3 - 0.3 - 0.3 - 0.3 - 0.3 - 0.3 - 0.3 - 0.6 - 0.6	
8. .062 to .031 mm (S)	2.2 - 1.7 - 1.4 - 1.4 - 1.5 - 1.4 - 1.5 - 1.5 - 1.5 - 1.5 - 2.0 - 2.0	
9. .031 to .016 mm (S)	5.0 - 6.5 - 12.0 - 12.0 - 6.0 - 12.0 - 6.0 - 12.0 - 6.0 - 12.0 - 5.0 - 5.0	
10. .016 to .008 mm (S)	7.0 - 7.0 - 10.0 - 10.0 - 6.0 - 10.0 - 6.0 - 10.0 - 6.0 - 10.0 - 6.0 - 6.0	
11. .008 to .004 mm (S)	11.0 - 12.0 - 4.0 - 4.0 - 12.0 - 4.0 - 12.0 - 4.0 - 12.0 - 4.0 - 12.0 - 12.0	
12. .004 to .002 mm (S)	14.0 - 13.0 - 10.0 - 10.0 - 14.0 - 10.0 - 14.0 - 10.0 - 14.0 - 10.0 - 14.0 - 12.0	
13. .002 to .001 mm (S)	15.0 - 14.0 - 17.0 - 17.0 - 13.0 - 17.0 - 13.0 - 17.0 - 13.0 - 17.0 - 13.0 - 14.0	
14. < .001 mm (S)	45.0 - 45.0 - 45.0 - 45.0 - 47.0 - 45.0 - 47.0 - 45.0 - 47.0 - 45.0 - 47.0 - 45.0	
15. Median Diameter (mm)	.0013 - .0014 - .0014 - .0014 - .0014 - .0014 - .0014 - .0014 - .0014 - .0014 - .0014 - .0014	
16. Sorting Coefficient	- - - - - - - - - - - - - - - -	
17. Skewness	- - - - - - - - - - - - - - - -	
18. Standard Deviation (mm)	- - - - - - - - - - - - - - - -	
19. Sediment Type	Clay Silty Clay Clay Clay	Clay Clay Clay Clay Clay
t. Dominant Minerals	Quartz 40% Calcite 40% Quartz 60% Calcite 40% Quartz 40% Calcite 40% Limonite 10% Limonite 10% Limonite 10% Biotite	Quartz 40% Calcite 40% Quartz 60% Calcite 40% Limonite 10% Limonite 10% Biotite
Plus 325 fraction	Calcite 30% Quartz 40% Limonite 20%	Calcite 30% Quartz 40% Limonite 10% Limonite 10% Biotite
u. Secondary Minerals	Muscovite	Muscovite
v. Calcium Carbonate	(S) 8.36 - 9.77 - 9.51 - 9.20 - 8.21 - 9.63 - 7.99 -	1.91 2.36 7.15 7.29 8.02 1.61 7.27 8.02
w. Organic Carbon	(S) - - - - - - - - - - - - - - - -	0.74 0.74 7.25
19. REMARKS		

**CORE ANALYSIS SUMMARY SHEET**  
**SEDIMENT SIZE AND COMPOSITION**

NAVOCALD-BR-367/16-A Rev. 1-63)

ANALYST IN NCEL - Pt. Hueneme

DATE 30 April 1963

1. CRUISE NO. Project D-5		4. SAMPLE NO. BS-9 continued		7. TYPE CORE Kullenberg, gravity	
2. LATITUDE 34° 38.5'	"	5. DATE TAKEN (DAY, MO., YR.) 21/11/62	"	6. CORE LENGTH (cm) 231	"
3. LONGITUDE 122° 44.9'	"	6. WATER DEPTH (m) 3996	"	9. CORER PENETRATION (cm) Not recorded	"
10. LABORATORY NUMBER	BS-9-14	BS-9-15	"	"	"
11. SUBSAMPLE DEPTH IN CORE (cm)	198-206	213-221	"	"	"
12. COLOR (GSA ROCK COLOR CHART) [F]IELD [L]AB DETERMINATION	10Y 4/2	10Y 4/2	"	"	"
13. ODOR	H <sub>2</sub> S	H <sub>2</sub> S	"	"	"
14. SIZE & COMPOSITION ANALYSIS					
a.	> 4	(mm) (S)	--	0	
b.	.4 to .2	mm (S)	--	0	
c.	.2 to .1	mm (S)	--	0	
d.	.1 to .050	mm (S)	--	0	
e.	.500 to .250	mm (S)	--	0.1	
f.	.250 to .125	mm (S)	--	0.3	
g.	.125 to .062	mm (S)	--	0.6	
h.	.062 to .031	mm (S)	--	0.5	
i.	.031 to .016	mm (S)	--	0.5	
j.	.016 to .008	mm (S)	--	1.0	
k.	.008 to .004	mm (S)	--	13.0	
l.	.004 to .002	mm (S)	--	16.0	
m.	.002 to .001	mm (S)	--	12.0	
n.	<.001	mm (S)	--	56.0	
o.	Median Diameter (mm)		--	0.0006	
p.	Sorting Coefficient		--		
q.	Skewness		--		
r.	Standard Deviation (mm)		--		
s.	Sediment Type	Clay			
t.	Dominant Minerals (S) Plus 325 fraction	Quartz 40% Calcite 40% Limonite 20%			
u.	Secondary Minerals (S)	Biotite			
v.	Calcium Carbonate (%)	--	8.99		
w.	Organic Carbon (%)	--	--		
x.	REMARKS				
	CaCO <sub>3</sub> (%)	0.75			
	MgCO <sub>3</sub> (%)	8.24			

**CORE ANALYSIS - SUMMARY SHEET**  
**SEDIMENT SIZE AND COMPOSITION**

Core No.	Depth (ft.)	Sample No.	Core Length (in.)	Core Type	Core Description	Core Weight (lb.)	Core Volume (cu. in.)	Core Density (lb./cu. ft.)	Core Strength	Core Condition	Sediment Size and Composition					
											Gravel	Sand	Silt	Clay	Organic	Calcareous
34	375.		100	100		100	100	100	100	100	0	0	0	0	0	0
35	379.		100	100		100	100	100	100	100	0	0	0	0	0	0
36	380.		100	100		100	100	100	100	100	0	0	0	0	0	0
37	381.		100	100		100	100	100	100	100	0	0	0	0	0	0
38	382.		100	100		100	100	100	100	100	0	0	0	0	0	0
39	383.		100	100		100	100	100	100	100	0	0	0	0	0	0
40	384.		100	100		100	100	100	100	100	0	0	0	0	0	0
41	385.		100	100		100	100	100	100	100	0	0	0	0	0	0
42	386.		100	100		100	100	100	100	100	0	0	0	0	0	0
43	387.		100	100		100	100	100	100	100	0	0	0	0	0	0
44	388.		100	100		100	100	100	100	100	0	0	0	0	0	0
45	389.		100	100		100	100	100	100	100	0	0	0	0	0	0
46	390.		100	100		100	100	100	100	100	0	0	0	0	0	0
47	391.		100	100		100	100	100	100	100	0	0	0	0	0	0
48	392.		100	100		100	100	100	100	100	0	0	0	0	0	0
49	393.		100	100		100	100	100	100	100	0	0	0	0	0	0
50	394.		100	100		100	100	100	100	100	0	0	0	0	0	0
51	395.		100	100		100	100	100	100	100	0	0	0	0	0	0
52	396.		100	100		100	100	100	100	100	0	0	0	0	0	0
53	397.		100	100		100	100	100	100	100	0	0	0	0	0	0
54	398.		100	100		100	100	100	100	100	0	0	0	0	0	0
55	399.		100	100		100	100	100	100	100	0	0	0	0	0	0
56	400.		100	100		100	100	100	100	100	0	0	0	0	0	0
57	401.		100	100		100	100	100	100	100	0	0	0	0	0	0
58	402.		100	100		100	100	100	100	100	0	0	0	0	0	0
59	403.		100	100		100	100	100	100	100	0	0	0	0	0	0
60	404.		100	100		100	100	100	100	100	0	0	0	0	0	0
61	405.		100	100		100	100	100	100	100	0	0	0	0	0	0
62	406.		100	100		100	100	100	100	100	0	0	0	0	0	0
63	407.		100	100		100	100	100	100	100	0	0	0	0	0	0
64	408.		100	100		100	100	100	100	100	0	0	0	0	0	0
65	409.		100	100		100	100	100	100	100	0	0	0	0	0	0
66	410.		100	100		100	100	100	100	100	0	0	0	0	0	0
67	411.		100	100		100	100	100	100	100	0	0	0	0	0	0
68	412.		100	100		100	100	100	100	100	0	0	0	0	0	0
69	413.		100	100		100	100	100	100	100	0	0	0	0	0	0
70	414.		100	100		100	100	100	100	100	0	0	0	0	0	0
71	415.		100	100		100	100	100	100	100	0	0	0	0	0	0
72	416.		100	100		100	100	100	100	100	0	0	0	0	0	0
73	417.		100	100		100	100	100	100	100	0	0	0	0	0	0
74	418.		100	100		100	100	100	100	100	0	0	0	0	0	0
75	419.		100	100		100	100	100	100	100	0	0	0	0	0	0
76	420.		100	100		100	100	100	100	100	0	0	0	0	0	0
77	421.		100	100		100	100	100	100	100	0	0	0	0	0	0
78	422.		100	100		100	100	100	100	100	0	0	0	0	0	0
79	423.		100	100		100	100	100	100	100	0	0	0	0	0	0
80	424.		100	100		100	100	100	100	100	0	0	0	0	0	0
81	425.		100	100		100	100	100	100	100	0	0	0	0	0	0
82	426.		100	100		100	100	100	100	100	0	0	0	0	0	0
83	427.		100	100		100	100	100	100	100	0	0	0	0	0	0
84	428.		100	100		100	100	100	100	100	0	0	0	0	0	0
85	429.		100	100		100	100	100	100	100	0	0	0	0	0	0
86	430.		100	100		100	100	100	100	100	0	0	0	0	0	0
87	431.		100	100		100	100	100	100	100	0	0	0	0	0	0
88	432.		100	100		100	100	100	100	100	0	0	0	0	0	0
89	433.		100	100		100	100	100	100	100	0	0	0	0	0	0
90	434.		100	100		100	100	100	100	100	0	0	0	0	0	0
91	435.		100	100		100	100	100	100	100	0	0	0	0	0	0
92	436.		100	100		100	100	100	100	100	0	0	0	0	0	0
93	437.		100	100		100	100	100	100	100	0	0	0	0	0	0
94	438.		100	100		100	100	100	100	100	0	0	0	0	0	0
95	439.		100	100		100	100	100	100	100	0	0	0	0	0	0
96	440.		100	100		100	100	100	100	100	0	0	0	0	0	0
97	441.		100	100		100	100	100	100	100	0	0	0	0	0	0
98	442.		100	100		100	100	100	100	100	0	0	0	0	0	0
99	443.		100	100		100	100	100	100	100	0	0	0	0	0	0
100	444.		100	100		100	100	100	100	100	0	0	0	0	0	0
101	445.		100	100		100	100	100	100	100	0	0	0	0	0	0
102	446.		100	100		100	100	100	100	100	0	0	0	0	0	0
103	447.		100	100		100	100	100	100	100	0	0	0	0	0	0
104	448.		100	100		100	100	100	100	100	0	0	0	0	0	0
105	449.		100	100		100	100	100	100	100	0	0	0	0	0	0
106	450.		100	100		100	100	100	100	100	0	0	0	0	0	0
107	451.		100	100		100	100	100	100	100	0	0	0	0	0	0
108	452.		100	100		100	100	100	100	100	0	0	0	0	0	0
109	453.		100	100		100	100	100	100	100	0	0	0	0	0	0
110	454.		100	100		100	100	100	100	100	0	0	0	0	0	0
111	455.		100	100		100	100	100	100	100	0	0	0	0	0	0
112	456.		100	100		100	100	100	100	100	0	0	0	0	0	0
113	457.		100	100		100	100	100	100	100	0	0	0	0	0	0
114	458.		100	100		100	100	100	100	100	0	0	0	0	0	0
115	459.		100	100		100	100	100	100	100	0	0	0	0	0	0
116	460.		100	100		100	100	100	100	100	0	0	0	0	0	0
117	461.		100	100		100	100	100	100	100	0	0	0	0	0	0
118	462.		100	100		100	100	100	100	100	0	0	0	0	0	0
119	463.		100	100		100	100	100	100	100	0	0	0	0	0	0
120	464.		100	100		100	100	100	100	100	0	0	0	0	0	0
121	465.		100	100		100	100	100	100	100	0	0	0	0	0	0
122	466.		100	100												

**CORE ANALYSIS SUMMARY SHEET**  
**SEDIMENT SIZE AND COMPOSITION**

ANALYST Et NCEL - Pt. Hueneme

DATE 30 April 1963

NAVOCAND-BR-1971-A Rev. 1-63

1. CRUISE NO. Project D-5		4. SAMPLE NO. BS-10		7. TYPE CORE Kullenberg, gravity	
2. LATITUDE	34° 40'	5. DATE TAKEN (DAY, MO., YR.)	21/11/62	8. CORE LENGTH (cm)	208
3. LONGITUDE	123° 00'	6. WATER DEPTH (m)	4060	9. CORE PENETRATION (cm)	Not recorded
10. LABORATORY NUMBER	BS-10-1	BS-10-2	BS-10-3	BS-10-4	BS-10-5
11. SUBSAMPLE DEPTH IN CORE (cm)	0.0 - 7.6	5.2 - 22.9	20.5 - 38.1	45.7 - 53.3	61.0 - 68.6
12. COLOR (GSA ROCK COLOR CHART) ELFIELD <input checked="" type="checkbox"/> LAB DETERMINATION	10Y4/2	5Y5/2	10Y4/2	5Y5/2	10Y4/2
13. ODOR	H2S	H2S	H2S	H2S	H2S
14. SIZE & COMPOSITION ANALYSIS					
a. > 4 mm (5)	0	-	0	-	0
b. 4 to 2 mm (5)	0	-	0	-	0
c. 2 to 1 mm (5)	0	-	0	-	0
d. 1 to .500 mm (5)	0	-	0	-	0
e. .500 to .250 mm (5)	0.1	-	0.1	-	0.2
f. .250 to .125 mm (5)	0.5	-	0.3	-	0.5
g. .125 to .062 mm (5)	0.5	-	0.4	-	0.4
h. .062 to .031 mm (5)	2.3	-	2.2	-	2.7
i. .031 to .016 mm (5)	8.5	-	9.0	-	14.0
j. .016 to .008 mm (5)	9.0	-	8.0	-	10.0
k. .008 to .004 mm (5)	6.0	-	14.0	-	13.0
l. .004 to .002 mm (5)	14.0	-	12.0	-	12.0
m. .002 to .001 mm (5)	17.0	-	12.0	-	13.0
n. < .001 mm (5)	42.0	-	42.0	-	49.0
o. Median Diameter (mm)	.0015	-	.0017	-	.0015
p. Sorting Coefficient	-	-	-	-	-
q. Skewness	-	-	-	-	-
r. Standard Deviation (mm)	-	-	-	-	-
s. Sediment Type	Clay	Calcareous clay	Clay	Calcareous clay	Silty clay
t. Dominant Minerals (5)	Calcite 50%	Calcite 70%	Quartz 60%	Quartz 70%	Quartz 50%
Plus 325 fraction	Quartz 40%	Quartz 20%	Limonite 20%	Quartz 20%	Quartz 20%
u. Secondary Minerals (5)	Muscovite 10%	Ferrungite 20%	Biotite 15%	Biotite 10%	Calcite 20%
v. Calcium Carbonate (5)	Limonite 10%	Muscovite 10%	Biotite 5%	Calcite 10%	Ferrungite 20%
w. Organic Carbon (5)	-	-	-	-	Biotite 10%
x. Remarks	CaCO <sub>3</sub> (%) 1.20	1.58	1.25	0.94	2.18
	MgCO <sub>3</sub> (%) 7.90	9.43	7.31	7.11	8.48

**CORE ANALYSIS - BINARY SHEET  
SEDIMENT SIZE AND COMPOSITION**

### ANALYSIS OF THE CULTURE OF *Entomophthora*

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**CORE ANALYSIS SUMMARY SHEET**  
**SEDIMENT SIZE AND COMPOSITION**

ANALYZED BY STEWART

1. CRUISE NO.		4. SAMPLE NO. BS-11		7. TYPE CORER Ewing	
2. LATITUDE 34° 54.5'		5. DATE TAKEN (DAY, MO., YR.) 23 NOV. 1962		8. CORE LENGTH (cm) 26.2	
3. LONGITUDE 122° 30'		6. WATER DEPTH (m) 39.7		9. CORE PENETRATION (cm)	
10. LABORATORY NUMBER	BS-1	182-2	182-3	182-4	182-5
11. SUBSAMPLE DEPTH IN CORE (cm)	0-5	32-39	101-108	194-201	233-240
12. COLOR (GSA ROCK COLOR CHART) FIELD LAB DETERMINATION	10Y4/2	10Y4/2	10Y4/2	10Y4/2	10Y4/2
13. ODOR					
14. SIZE & COMPOSITION ANALYSIS					
a. $\geq 4$ mm (%)					
b. .4 to .2 mm (%)					
c. .2 to .1 mm (%)	Trace				
d. .1 to .050 mm (%)	Trace	Trace	Trace	Trace	Trace
e. .050 to .0250 mm (%)	Trace	Trace	Trace	Trace	Trace
f. .250 to .125 mm (%)	Trace	Trace	Trace	Trace	Trace
g. .125 to .062 mm (%)	1	Trace	Trace	Trace	Trace
h. .062 to .031 mm (%)					
i. .031 to .016 mm (%)	11	14	10	11	38
j. .016 to .008 mm (%)					9
k. .008 to .004 mm (%)	25	30	31	28	27
l. .004 to .002 mm (%)					
m. .002 to .001 mm (%)	24	25	19	23	10
n. .001 mm (%)	38	31	40	38	13
o. Median Diameter (mm)	0.002	0.003	0.002	0.002	0.002
p. Sorting Coefficient	3.44	3.28	3.46	3.56	3.09
q. Skewness	1.18	0.82	0.98	0.49	1.06
r. Standard Deviation (mm)					
s. Sediment Type	Silty Clay Silty Clay Shaly Clay Shaly Clay Shaly Clay				
t. Dominant Minerals (%)					
u. Secondary Minerals (%)					
v. Calcium Carbonate (%)	12	13	//	5	14
w. Organic Carbon (%)	1.49				
x. REMARKS					

**CORE ANALYSIS SUMMARY SHEET**  
**SEDIMENT SIZE AND COMPOSITION**

NAVOCANO-EXP-3167718-A (Rev. 1-63)

STEWART

ANALYZED

W. URGANIC U.S.G.S. 15. REMARKS

**CORE ANALYSIS SUMMARY SHEET**  
**SEDIMENT SIZE AND COMPOSITION**

ANALYZED BY STEWART

NAVOCLAND-EXP-3167/78-A (Rev. 1-63)

1. CRUISE NO.	4. SAMPLE NO. <u>BS-14</u>	5. DATE TAKEN (DAY, MO., YR.) <u>1 Dec. 1962</u>	8. CORE LENGTH (cm) <u>173.5</u>
2. LATITUDE <u>30° 50.5'</u>	" N	6. WATER DEPTH (m) <u>4042</u>	9. CORER PENETRATION (cm)
3. LONGITUDE <u>121° 25'</u>	" W		
10. LABORATORY NUMBER	182-15	182-16	182-17
11. SUBSAMPLE DEPTH IN CORE (cm)	0-8.5	8.5-16.5	16.5-24.5
12. COLOR (GSA ROCK COLOR CHART) [EF FIELD <input checked="" type="checkbox"/> LAB DETERMINATION]	10YR 5/4	10YR 5/4	10YR 5/4
13. ODOR	[L]	[L]	[L]
14. SIZE & COMPOSITION ANALYSIS			
a. $\rightarrow$ 4 (mm) ( $\frac{1}{2}$ )			
b. .4 to 2 mm ( $\frac{1}{2}$ )			
c. .2 to 1 mm ( $\frac{1}{2}$ )			
d. .1 to .500 mm ( $\frac{1}{2}$ )			
e. .500 to .250 mm ( $\frac{1}{2}$ )			
f. .250 to .125 mm ( $\frac{1}{2}$ )			
g. .125 to .062 mm ( $\frac{1}{2}$ )	-	-	-
h. .062 to .031 mm ( $\frac{1}{2}$ )			
i. .031 to .016 mm ( $\frac{1}{2}$ )	7	8	6
j. .016 to .008 mm ( $\frac{1}{2}$ )			7
k. .008 to .004 mm ( $\frac{1}{2}$ )	23	21	22
l. .004 to .002 mm ( $\frac{1}{2}$ )			21
m. .002 to .001 mm ( $\frac{1}{2}$ )	28	36	35
n. < .001 mm ( $\frac{1}{2}$ )	42	35	37
o. Median Diameter (mm)	.0001	.0002	.0002
p. Sorting Coefficient	3.50	2.83	3.03
q. Skewness	1.00	0.89	0.90
r. Standard Deviation (mm)			
s. Sediment Type	Silty Clay	Silty Clay	Silty Clay
t. Dominant Minerals ( $\frac{1}{2}$ )			
u. Secondary Minerals ( $\frac{1}{2}$ )	'		
v. Calcium Carbonate (%)	8	9	11
w. Organic Carbon (%)	0.76		
15. REMARKS	UNIFORM RED CLAY		

**CORE ANALYSIS SUMMARY SHEET**  
**SEDIMENT SIZE AND COMPOSITION**

ANALYZED BY STEWART

NAVOCLEAN-EXP-3167/18-A (Rev. 1-63)

1. CRUISE NO.	4. SAMPLE NO. <b>B5-15</b>		7. TYPE CORER <b>Kullenberg</b>
2. LATITUDE	31° 0' 02"	" N	5. DATE TAKEN (DAY, MO., YR.) <b>2 Dec. 1962</b>
3. LONGITUDE	121° 0' 22.7"	" W	6. WATER DEPTH (m) <b>39.87</b>
10. LABORATORY NUMBER	182-21	182-22	7. CORE LENGTH (cm) <b>182-27</b>
11. SUBSAMPLE DEPTH IN CORE (cm)	0-5	10-17	8. CORE PENETRATION (cm)
12. COLOR (GSA ROCK COLOR CHART)	10YR4/2	10YR4/2	9. COLOR
E FIELD <input checked="" type="checkbox"/> LAB DETERMINATION	1	1	10YR6/2
13. ODOR			10YR4/2
14. SIZE & COMPOSITION ANALYSIS			
a. > 4 mm (%)	7		
b. .4 to .2 mm (%)			
c. .2 to .1 mm (%)			
d. .1 to .050 mm (%)			Trace
e. .500 to .250 mm (%)			—
f. .250 to .125 mm (%)			—
g. .125 to .062 mm (%)			Trace
h. .062 to .031 mm (%)			—
i. .031 to .016 mm (%)	8	6	—
j. .016 to .008 mm (%)			6
k. .008 to .004 mm (%)	25	23	5
l. .004 to .002 mm (%)		24	6
m. .002 to .001 mm (%)	33	24	5
n. <.001 mm (%)	34	21	6
o. Median Diameter (mm)	0.002	0.002	0.002
p. Sorting Coefficient	3.26	4.85	3.10
q. Skewness	0.73	0.33	0.83
r. Standard Deviation (mm)			0.94
s. Sediment Type	Silty Clay Shaly Clay Shaly Clay Shaly Clay Shaly Clay Shaly Clay		
t. Dominant Minerals (%)			
u. Secondary Minerals (%)			
v. Calcium Carbonate (%)	//	/2	13
w. Organic Carbon (%)	0.65	7	13
15. REMARKS	<b>UNIFORM RED CLAY</b>		

**CORE ANALYSIS SUMMARY SHEET**  
**SEDIMENT SIZE AND COMPOSITION**

ANALYZED BY STEWART

NAVOCEANO-EXP-3167/1B-A (Rev. 1-63)

DATE

1. CRUISE NO.	D-5	4. SAMPLE NO.	BS-16	7. TYPE CORER	KUHNENBERG
2. LATITUDE	31° 11.1'	"	N.	5. DATE TAKEN (DAY, MO., YR.)	2 DEC. '62
3. LONGITUDE	122° 22.3'	"	W.	6. WATER DEPTH (m)	3712
10. LABORATORY NUMBER		182-28	182-29	182-30	182-31
11. SUBSAMPLE DEPTH IN CORE (cm)	0-6	15-31	30-36	46-52	61-67
12. COLOR (GSA ROCK COLOR CHART)	10YR 5/4	10YR 5/4	10YR 5/4	10YR 5/4	10YR 5/4
13. FIELD <input checked="" type="checkbox"/> LAB DETERMINATION	L	L	L	L	L
14. SIZE & COMPOSITION ANALYSIS					
a. > 4 mm (%)	84				
b. .4 to 2 mm (%)	—				TRACE
c. .2 to 1 mm (%)	TRACE				
d. .1 to .500 mm (%)	TRACE				TRACE
e. .500 to .250 mm (%)	TRACE				TRACE
f. .250 to .125 mm (%)	TRACE				TRACE
g. .125 to .062 mm (%)	TRACE	—			TRACE
h. .062 to .031 mm (%)	2	10	6	10	11
i. .031 to .016 mm (%)	10	6	6	11	13
j. .016 to .008 mm (%)	—	—	—	—	—
k. .008 to .004 mm (%)	4	21	19	23	23
l. .004 to .002 mm (%)	—	—	—	27	27
m. .002 to .001 mm (%)	5	30	28	34	35
n. < .001 mm (%)	5	39	47	32	30
o. Median Diameter (mm)	36.000	0.002	0.001	0.002	0.002
p. Sorting Coefficient	1.00	3.22	3.56	2.90	3.55
q. Skewness	1.00	1.02	0.94	1.03	0.71
r. Standard Deviation (mm)				1.00	0.99
s. Sediment Type	Gravel	Silty Clay	Fatty Clay	Silty Clay	Silty Clay
t. Dominant Minerals (%)					
u. Secondary Minerals (%)					
v. Calcium Carbonate (%)	0	8	8	10	9
w. Organic Carbon (%)	0.85				
15. REMARKS	LARGE 36 CM. MANGANESE NODULE AT TOP. UNIFORM RED CLAY.				
				/2	/0

**CORE ANALYSIS SUMMARY SHEET**  
**SEDIMENT SIZE AND COMPOSITION**

ANALYST # NCEL - Pt. Hueneme

DATE 1 May 1963

NAVOCBAND-8P-31971B-A Rev. 1-63

1. CRUISE No. Project D-5		4. SAMPLE NO. BS-17		7. TYPE CORER Kullenberg, gravity	
2. LATITUDE	31° 26.1'	5. DATE TAKEN (DAY, MO., YR.)	3/12/62	8. CORE LENGTH (cm)	279
3. LONGITUDE	121° 27.9'	6. WATER DEPTH (m)	385.9	9. CORE PENETRATION (cm)	Not recorded
10. LABORATORY NUMBER	BS-17-1	BS-17-2	BS-17-3	BS-17-4	BS-17-5
11. SUBSAMPLE DEPTH IN CORE (cm)	0.0-7.6	15.2-22.9	30.5-38.1	45.7-53.3	61.0-68.6
12. COLOR (GSA ROCK COLOR CHART) [FIELD □ LAB DETERMINATION]	10YR 5/4 10YR 4/2	10YR 4/2	10YR 5/4	10YR 4/2	10YR 5/4
13. ODOR	Rancid	Rancid	Rancid	Rancid	Rancid
14. SIZE & COMPOSITION ANALYSIS	Rancid	Rancid	Rancid	Rancid	Rancid
a. > 4 mm (S)	0	-	0	-	0
b. 4 to 2 mm (S)	0	-	0	-	0
c. 2 to 1 mm (S)	0	-	0	-	0
d. 1 to .500 mm (S)	0	-	0	-	0
e. .500 to .250 mm (S)	0.1	-	0.1	-	0.1
f. .250 to .125 mm (S)	0.2	-	0.1	-	0.2
g. .125 to .062 mm (S)	0.3	-	0.2	-	0.7
h. .062 to .031 mm (S)	2.9	-	2.6	-	4.5
i. .031 to .016 mm (S)	10.5	-	9.0	-	11.0
j. .016 to .008 mm (S)	7.0	-	6.0	-	7.0
k. .008 to .004 mm (S)	12.0	-	11.0	-	10.0
l. .004 to .002 mm (S)	12.0	-	11.0	-	12.0
m. .002 to .001 mm (S)	12.0	-	12.0	-	11.0
n. <.001 mm (S)	43.0	-	43.0	-	44.0
o. Median Diameter (mm)	.0016	-	.0017	-	.0015
p. Sorting Coefficient	-	-	-	-	-
q. Skewness	-	-	-	-	-
r. Standard Deviation (mm)	-	-	-	-	-
s. Sediment Type	Silty clay	Silty clay	Silty clay	Silty clay	Silty clay
t. Dominant Minerals (S)	Calcite 40% Quartz 30% Plus 32.5 fraction Muscovite 20%	Quartz 30% Limonite 20% Muscovite 20% Limonite 10%	Calcite 30% Quartz 30% Muscovite 20% Limonite 20%	Quartz 40% Limonite 30% Muscovite 20% Limonite 10%	Calcite 70% Quartz 30% Limonite 20% Muscovite 20%
u. Secondary Minerals (S)	Limonite 10% Biotite	Limonite 20%	Muscovite 10% Biotite	Muscovite 10% Biotite	Limonite 20% Muscovite 20% Biotite
v. Calcium Carbonate (%)	6.78	6.13	6.91	5.02	7.56
w. Organic Carbon (%)	-	-	-	-	-
x. REMARKS	CaCO <sub>3</sub> (%) 0.89 MgCO <sub>3</sub> (%) 5.89	0.41 5.72	0.39 6.52	0.32 4.70	0.47 5.74
				7.09	6.13

**CORE ANALYSIS SUMMARY SHEET**  
**SEDIMENT SIZE AND COMPOSITION**

ANALYST # NCEL - Pt. Hueneke

NOVOCAND-BR-1970/71-A Rev. 1-61

DATE 1 May 1963

1. CRUISE NO. Project: D-5		4. SAMPLE NO. BS-17 continued		7. TYPE CORE Kullenberg, gravity	
2. LATITUDE	31° 26.1'	5. DATE TAKEN (DAY, MO., YR.)	3/12/63	6. CORE LENGTH (cm)	279
3. LONGITUDE	121° 27.9'	6. WATER DEPTH (m)	385.9	9. CORE PENETRATION (cm)	Not recorded
10. LABORATORY NUMBER	BS-17-14	BS-17-15	BS-17-16	BS-17-17	BS-17-18
11. SUBSAMPLE DEPTH IN CORE (cm)	198-206	213-221	229-236	244-251	259-267
12. COLOR (GSA ROCK COLOR CHART) [F] FIELD [L] LAB DETERMINATION	10YR 5/4 11	10YR 5/4 11	10YR 5/4 11	10YR 5/4 11	10YR 5/4 11
13. ODOR	Rancid	Rancid	Rancid	Rancid	Rancid
14. SIZE & COMPOSITION ANALYSIS					
a.	> 4 mm (S)	-	0	-	0
b. .4 to .2 mm (S)	-	0	-	0	-
c. .2 to 1 mm (S)	-	0	-	0	-
d. .1 to .010 mm (S)	-	0.1	-	0.1	-
e. .500 to .250 mm (S)	-	0.1	-	0.2	-
f. .250 to .125 mm (S)	-	2.8	-	0.7	-
g. .125 to .062 mm (S)	-	5.0	-	4.0	-
h. .062 to .031 mm (S)	-	10.0	-	8.0	-
i. .031 to .016 mm (S)	-	16.0	-	15.0	-
j. .016 to .008 mm (S)	-	11.0	-	10.0	-
k. .008 to .004 mm (S)	-	13.0	-	13.0	-
l. .004 to .002 mm (S)	-	10.0	-	10.0	-
m. .002 to .001 mm (S)	-	6.0	-	7.0	-
n. < .001 mm (S)	-	26.0	-	32.0	-
o. Median Diameter (mm)	-	.0060	-	.0043	-
p. Sorting Coefficient	-	-	-	-	-
q. Skewness	-	-	-	-	-
r. Standard Deviation (mm)	-	-	-	-	-
s. Sediment Type	-	-	-	-	-
t. Dominant Minerals (S) Plus 325 fraction	Calcite Limestone	95% 5%	Calcareous clay Limestone Muscovite	85% 10% 5%	Calcareous clay Limestone Muscovite
u. Secondary Minerals (S)	-	-	-	-	-
v. Calcium Carbonate (%)	-	60.64	-	33.31	26.22
w. Organic Carbon (%)	-	-	-	-	7.09
x. REMARKS					

**CORE ANALYSIS SUMMARY SHEET**  
**SEDIMENT SIZE AND COMPOSITION**

ANALYST IN NCEL - Pt. Hueneme

DATE 2 May 1963

NOVOCIANO-BR-310718-A Rev. 1-63

1. CRUISE NO. Project D-5	4. SAMPLE NO. BS-18	7. TYPE CORE Kullenberg, gravity
2. LATITUDE 31° 32'.5 "	5. DATE TAKEN (DAY, MO., YR.) 3/12/62	8. CORE LENGTH (cm) 277
3. LONGITUDE 121° 29.1 '	6. WATER DEPTH (m) 3850	9. CORE PENETRATION (cm) NOT recorded
10. LABORATORY NUMBER BS-18-1	BS-18-2	BS-18-3
11. SUBSAMPLE DEPTH IN CORE (cm) 0.0-7.6	0.5-18.3	BS-18-4
12. COLOR (GSA ROCK COLOR CHART) EFFIELD <input checked="" type="checkbox"/> LAB DETERMINATION	30.5-38.1	BS-18-5
13. ODO Rancid	45.7-53.3	BS-18-6
	54.2-61.6	BS-18-7
	5Y 6/4	BS-18-8
	5Y 6/4	BS-18-9
	5Y 6/4	BS-18-10
	5Y 6/4	BS-18-11
	5Y 6/4	BS-18-12
	5Y 6/4	BS-18-13
	5Y 6/4	BS-18-14
	5Y 6/4	BS-18-15
	5Y 6/4	BS-18-16
	5Y 6/4	BS-18-17
	5Y 6/4	BS-18-18
	5Y 6/4	BS-18-19
	5Y 6/4	BS-18-20
	5Y 6/4	BS-18-21
	5Y 6/4	BS-18-22
	5Y 6/4	BS-18-23
	5Y 6/4	BS-18-24
	5Y 6/4	BS-18-25
	5Y 6/4	BS-18-26
	5Y 6/4	BS-18-27
	5Y 6/4	BS-18-28
	5Y 6/4	BS-18-29
	5Y 6/4	BS-18-30
	5Y 6/4	BS-18-31
	5Y 6/4	BS-18-32
	5Y 6/4	BS-18-33
	5Y 6/4	BS-18-34
	5Y 6/4	BS-18-35
	5Y 6/4	BS-18-36
	5Y 6/4	BS-18-37
	5Y 6/4	BS-18-38
	5Y 6/4	BS-18-39
	5Y 6/4	BS-18-40
	5Y 6/4	BS-18-41
	5Y 6/4	BS-18-42
	5Y 6/4	BS-18-43
	5Y 6/4	BS-18-44
	5Y 6/4	BS-18-45
	5Y 6/4	BS-18-46
	5Y 6/4	BS-18-47
	5Y 6/4	BS-18-48
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	5Y 6/4	BS-18-50
	5Y 6/4	BS-18-51
	5Y 6/4	BS-18-52
	5Y 6/4	BS-18-53
	5Y 6/4	BS-18-54
	5Y 6/4	BS-18-55
	5Y 6/4	BS-18-56
	5Y 6/4	BS-18-57
	5Y 6/4	BS-18-58
	5Y 6/4	BS-18-59
	5Y 6/4	BS-18-60
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	5Y 6/4	BS-18-62
	5Y 6/4	BS-18-63
	5Y 6/4	BS-18-64
	5Y 6/4	BS-18-65
	5Y 6/4	BS-18-66
	5Y 6/4	BS-18-67
	5Y 6/4	BS-18-68
	5Y 6/4	BS-18-69
	5Y 6/4	BS-18-70
	5Y 6/4	BS-18-71
	5Y 6/4	BS-18-72
	5Y 6/4	BS-18-73
	5Y 6/4	BS-18-74
	5Y 6/4	BS-18-75
	5Y 6/4	BS-18-76
	5Y 6/4	BS-18-77
	5Y 6/4	BS-18-78
	5Y 6/4	BS-18-79
	5Y 6/4	BS-18-80
	5Y 6/4	BS-18-81
	5Y 6/4	BS-18-82
	5Y 6/4	BS-18-83
	5Y 6/4	BS-18-84
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	5Y 6/4	BS-18-105
	5Y 6/4	BS-18-106
	5Y 6/4	BS-18-107
	5Y 6/4	BS-18-108
	5Y 6/4	BS-18-109
	5Y 6/4	BS-18-110
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	5Y 6/4	BS-18-112
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	5Y 6/4	BS-18-114
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	5Y 6/4	BS-18-116
	5Y 6/4	BS-18-117
	5Y 6/4	BS-18-118
	5Y 6/4	BS-18-119
	5Y 6/4	BS-18-120
	5Y 6/4	BS-18-121
	5Y 6/4	BS-18-122
	5Y 6/4	BS-18-123
	5Y 6/4	BS-18-124
	5Y 6/4	BS-18-125
	5Y 6/4	BS-18-126
	5Y 6/4	BS-18-127
	5Y 6/4	BS-18-128
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	5Y 6/4	BS-18-131
	5Y 6/4	BS-18-132
	5Y 6/4	BS-18-133
	5Y 6/4	BS-18-134
	5Y 6/4	BS-18-135
	5Y 6/4	BS-18-136
	5Y 6/4	BS-18-137
	5Y 6/4	BS-18-138
	5Y 6/4	BS-18-139
	5Y 6/4	BS-18-140
	5Y 6/4	BS-18-141
	5Y 6/4	BS-18-142
	5Y 6/4	BS-18-143
	5Y 6/4	BS-18-144
	5Y 6/4	BS-18-145
	5Y 6/4	BS-18-146
	5Y 6/4	BS-18-147
	5Y 6/4	BS-18-148
	5Y 6/4	BS-18-149
	5Y 6/4	BS-18-150
	5Y 6/4	BS-18-151
	5Y 6/4	BS-18-152
	5Y 6/4	BS-18-153
	5Y 6/4	BS-18-154
	5Y 6/4	BS-18-155
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	5Y 6/4	BS-18-159
	5Y 6/4	BS-18-160
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	5Y 6/4	BS-18-162
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	5Y 6/4	BS-18-164
	5Y 6/4	BS-18-165
	5Y 6/4	BS-18-166
	5Y 6/4	BS-18-167
	5Y 6/4	BS-18-168
	5Y 6/4	BS-18-169
	5Y 6/4	BS-18-170
	5Y 6/4	BS-18-171
	5Y 6/4	BS-18-172
	5Y 6/4	BS-18-173
	5Y 6/4	BS-18-174
	5Y 6/4	BS-18-175
	5Y 6/4	BS-18-176
	5Y 6/4	BS-18-177
	5Y 6/4	BS-18-178
	5Y 6/4	BS-18-179
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	5Y 6/4	BS-18-182
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	5Y 6/4	BS-18-187
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	5Y 6/4	BS-18-193
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	5Y 6/4	BS-18-195
	5Y 6/4	BS-18-196
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	5Y 6/4	BS-18-199
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	5Y 6/4	BS-18-204
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	5Y 6/4	BS-18-208
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	5Y 6/4	BS-18-211
	5Y 6/4	BS-18-212
	5Y 6/4	BS-18-213
	5Y 6/4	BS-18-214
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	5Y 6/4	BS-18-217
	5Y 6/4	BS-18-218
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	5Y 6/4	BS-18-223
	5Y 6/4	BS-18-224
	5Y 6/4	BS-18-225
	5Y 6/4	BS-18-226
	5Y 6/4	BS-18-227
	5Y 6/4	BS-18-228
	5Y 6/4	BS-18-229
	5Y 6/4	BS-18-230
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	5Y 6/4	BS-18-232
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	5Y 6/4	BS-18-234
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	5Y 6/4	BS-18-236
	5Y 6/4	BS-18-237
	5Y 6/4	BS-18-238
	5Y 6/4	BS-18-239
	5Y 6/4	BS-18-240
	5Y 6/4	BS-18-241
	5Y 6/4	BS-18-242
	5Y 6/4	BS-18-243
	5Y 6/4	BS-18-244
	5Y 6/4	BS-18-245
	5Y 6/4	BS-18-246
	5Y 6/4	BS-18-247
	5Y 6/4	BS-18-248
	5Y 6/4	BS-18-249
	5Y 6/4	BS-18-250
	5Y 6/4	BS-18-251
	5Y 6/4	BS-18-252
	5Y 6/4	BS-18-253
	5Y 6/4	BS-18-254
	5Y 6/4	BS-18-255
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	5Y 6/4	BS-18-257
	5Y 6/4	BS-18-258
	5Y 6/4	BS-18-259
	5Y 6/4	BS-18-260
	5Y 6/4	BS-18-261
	5Y 6/4	BS-18-262
	5Y 6/4	BS-18-263
	5Y 6/4	BS-18-264
	5Y 6/4	BS-18-265
	5Y 6/4	BS-18-266
	5Y 6/4	BS-18-267
	5Y 6/4	BS-18-268
	5Y 6/4	BS-18-269
	5Y 6/4	BS-18-270
	5Y 6/4	BS-18-271
	5Y 6/4	BS-18-272
	5Y 6/4	BS-18-273
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	5Y 6/4	BS-18-275
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	5Y 6/4	BS-18-277
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	5Y 6/4	BS-18-279
	5Y 6/4	BS-18-280
	5Y 6/4	BS-18-281
	5Y 6/4	BS-18-282
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	5Y 6/4	BS-18-287
	5Y 6/4	BS-18-288
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	5Y 6/4	BS-18-292
	5Y 6/4	BS-18-293
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	5Y 6/4	BS-18-297
	5Y 6/4	BS-18-298
	5Y 6/4	BS-18-299
	5Y 6/4	BS-18-300
	5Y 6/4	BS-18-301
	5Y 6/4	BS-18-302
	5Y 6/4	BS-18-303
	5Y 6/4	BS-18-304
	5Y 6/4	BS-18-305
	5Y 6/4	BS-18-306
	5Y 6/4	BS-18-307
	5Y 6/4	BS-18-308
	5Y 6/4	BS-18-309
	5Y 6/4	BS-18-310
	5Y 6/4	BS-18-311
	5Y 6/4	BS-18-312
	5Y 6/4	BS-18-313
	5Y 6/4	BS-18-314
	5Y 6/4	BS-18-315
	5Y 6/4	BS-18-316
	5Y 6/4	BS-18-317
	5Y 6/4	BS-18-318
	5Y 6/4	BS-18-319
	5Y 6/4	BS-18-320
	5Y 6/4	BS-18-321
	5Y 6/4	BS-18-322
	5Y 6/4	BS-18-323
	5Y 6/4	BS-18-324
	5Y 6/4	BS-18-325
	5Y 6/4	BS-18-326
	5Y 6/4	BS-18-327
	5Y 6/4	BS-18-328
	5Y 6/4	BS-18-329
	5Y 6/4	BS-18-330
	5Y 6/4	BS-18-331
	5Y 6/4	BS-18-332
	5Y 6/4	BS-18-333
	5Y 6/4	BS-18-334
	5Y 6/4	BS-18-335
	5Y 6/4	BS-18-336
	5Y 6/4	BS-18-337
	5Y 6/4	BS-18-338
	5Y 6/4	

**CORE ANALYSIS SUMMARY SHEET**  
**ENGINEERING PROPERTIES**

ANALYZED BY NCEL - Pt. Hueneme

NAVOCANO-EP-3107/1B-B (Rev. 1-63)

DATE 2 May 1963

1. CRUISE NO. Project D-5	4. SAMPLE NO. BS-18 continued	7. TYPE CORER Kullenberg, gravity
2. LATITUDE 31°32.5'	5. DATE TAKEN (DAY, Month, Year) 3/12/62	8. CORE LENGTH (cm) 277
3. LONGITUDE 121°29.1'	6. WATER DEPTH (m) 3850	9. CORE PENETRATION (cm) Not recorded
10. SUBSAMPLE DEPTH IN CORE (cm)	183-191	183-206
11. WET UNIT WEIGHT (g/cm <sup>3</sup> )	1.436	1.454
12. SPECIFIC GRAVITY OF SOLIDS	2.687	2.613
13. WATER CONTENT (% dry weight)	97.5	111.7
14. VOID RATIO	2.690	2.802
15. SATURATED VOID RATIO	2.620	2.919
16. POROSITY (%)	72.9	73.7
17. LIQUID LIMIT	99.5	-
18. PLASTIC LIMIT	-	-
19. PLASTICITY INDEX	-	-
20. LIQUIDITY INDEX	-	-
21. COMPRESSION INDEX FROM LL	0.81	0.82
22. COMPRESSIVE STRENGTH NATURAL REHOLD (g/cm <sup>2</sup> )	-	-
23. COHESION NATURAL REHOLD (g/cm <sup>2</sup> )	374.7	251.3
24. SENSITIVITY	3.2	5.9
25. ANGLE OF INTERNAL FRICTION (°)	-	-
26. ACTIVITY	-	-
27. MODULUS OF ELASTICITY	-	-
28. SLUMP (cm)	-	-
29. REMARKS		

**CORE ANALYSIS SUMMARY SHEET**  
**SEDIMENT SIZE AND COMPOSITION**

ANALYST IN NCEL - Pt. Hueneme

DATE 3 May 1963

NAVOCANO-BRAGGON-A Rev. 1-63

1. CRUISE NO. Project D-S	4. SAMPLE NO. BS-19	7. TYPE CORE Kullenberg, gravity			
2. LATITUDE 31° 34.1'	5. DATE TAKEN (DAY, MO., YR.) 4/12/62	8. CORE LENGTH (cm) 152			
3. LONGITUDE 121° 01'	6. WATER DEPTH (m) 3835	9. CORE PENETRATION (cm) Not recorded			
10. LABORATORY NUMBER BS-19-1	BS-19-2 BS-19-3 BS-19-4 BS-19-5 BS-19-6 BS-19-7 BS-19-8 BS-19-9	BS-19-10			
11. SUBSAMPLE DEPTH IN CORE (cm) 0.0-7.6	30.5-38.1 45.7-53.3 61.0-68.4 76.2-83.3 91.4-99.1	107-114 122-130 137-145			
12. COLOR (GSA ROCK COLOR CHART) [F] FIELD [L] LAB DETERMINATION	10YR5/4 10YR4/2 10YR2.5/4 10YR2.9/2 10YR5/4 5Y7/2 10YR5/4 5Y7/2	[L] [L] [L] [L] [L] [L]			
13. ODOR	Rancid	Rancid			
14. SIZE & COMPOSITION ANALYSIS	Rancid	Rancid			
1. > 4 (mm) (%)	0	0			
2. 4 to 2 mm (%)	0	0			
3. 2 to 1 mm (%)	0	0			
4. 1 to .500 mm (%)	0.2	0.1			
5. .500 to .250 mm (%)	0.6	0.4			
6. .250 to .125 mm (%)	0.5	1.0			
7. .125 to .062 mm (%)	0.7	2.5			
8. .062 to .031 mm (%)	2.0	6.0			
9. .031 to .016 mm (%)	15.0	11.0			
10. .016 to .008 mm (%)	11.0	7.0			
11. .008 to .004 mm (%)	8.0	10.0			
12. .004 to .002 mm (%)	14.0	11.0			
13. Median Diameter (mm)	.0023	.0019			
14. Sorting Coefficient	-	-			
15. Skewness	-	-			
16. Standard Deviation (mm)	-	-			
s. Sediment Type	Silty clay	Silty clay			
t. Dominant Minerals (%)	Calcare 50% Quartz 30% Muscovite 20%	Calcare 90% Quartz 10% Limonite			
Plus 325 fraction					
u. Secondary Minerals (%)	Limonite	Muscovite			
v. Calcium Carbonate (%)	7.10	6.70			
w. Organic Carbon (%)	-	-			
19. REMARKS	Caco <sub>3</sub> (%) 0.31 MgCO <sub>3</sub> (%) 6.79	1.18 5.52	35.45 4.81	55.79 5.55	81.41 8.52

**CORE ANALYSIS SUMMARY SHEET**  
**SEDIMENT SIZE AND COMPOSITION**

ANALYZED BY STEWART

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**CORE ANALYSIS SUMMARY SHEET**  
**SEDIMENT SIZE AND COMPOSITION**

ANALYZED BY STEWART

NAVOCEANO-EXP-315/18-A (Rev. 1-63)

1. CRUISE NO.	D-5	4. SAMPLE NO.	BS-20 (CONT.)	7. TYPE CORER	KUHLENBERG
2. LATITUDE	31° 20'	"	N.	5. DATE TAKEN (DAY, MO., YR.)	4 Dec. '62
3. LONGITUDE	121° 01'	"	W.	6. WATER DEPTH (m)	3822
10. LABORATORY NUMBER	182-048	11. SUBSAMPLE DEPTH IN CORE (cm)	182-049	7. CORE LENGTH (cm)	284.0
11. COLOR (IGSA ROCK COLOR CHART)	225-232	12. COLOR (FIELD LAB DETERMINATION)	277-284	8. CORE PENETRATION (cm)	
F	FIELD	L	LAB		
13. ODOR					
14. SIZE & COMPOSITION ANALYSIS					
a.	> 4 mm (%)	b. 4 to 2 mm (%)	c. 2 to 1 mm (%)	d. 1 to .500 mm (%)	
e. .500 to .250 mm (%)	f. .250 to .125 mm (%)	TRACE			
g. .125 to .062 mm (%)	h. .062 to .031 mm (%)	i. .031 to .016 mm (%)	j. .016 to .008 mm (%)	k. .008 to .004 mm (%)	
l. .004 to .002 mm (%)	m. .002 to .001 mm (%)	n. < .001 mm (%)	o. Median Diameter (mm)	p. Sorting Coefficient	q. Skewness
33	33	31	0.002	2.90	0.85
22	40	40	0.002	8.52	0.96
			o. Standard Deviation (mm)		
			s. Sediment Type	Silty Clay	
t. Dominant Minerals (%)			u. Secondary Minerals (%)		
v. Calcium Carbonate (%)	4	w. Organic Carbon (%)	11	15. REMARKS	

**CORE ANALYSIS SUMMARY SHEET**  
**SEDIMENT SIZE AND COMPOSITION**

ANALYSIS IN NCEI - Pt. Hueneme

NOVOCANO-BR-310718-A (Rev. 1-61)

DATE 6 May 1963

1. CRUISE NO. Project D-5		4. SAMPLE NO. BS-21		5. DATE TAKEN (DAY, MO., YR.) 4/12/62		6. WATER DEPTH (m) 3744		7. TYPE CORE Kullenberg, gravity		8. CORE LENGTH (cm) 315		9. CORE PENETRATION (cm) Not recorded	
2. LATITUDE 31° 15.1'													
3. LONGITUDE 120° 41.2'													
10. LABORATORY NUMBER	BS-21-1	BS-21-2	BS-21-3	BS-21-4	BS-21-5	BS-21-6	BS-21-7	BS-21-8	BS-21-9	BS-21-10	BS-21-11	BS-21-12	
11. SUBSAMPLE DEPTH IN CORE (cm)	0.0-7.6	15.2-22.9	30.5-38.1	45.7-53.3	61.0-68.6	76.2-83.8	91.4-99.1	107.1-114	122.1-130	137.1-145	152.1-160	168.1-175	
12. COLOR (GSA ROCK COLOR CHART) FIELD <input checked="" type="checkbox"/> LAB DETERMINATION	10YR 4/2	10YR 4/2	10YR 4/2	5Y 6/4	5Y 6/4	10YR 5/4	5Y 6/4	5Y 6/4	10YR 5/4	5Y 6/4	5Y 6/4	5Y 6/4	
13. ODOR	none	none	none	none	none	none	none	none	none	none	none	none	
14. SIZE & COMPOSITION ANALYSIS													
a. > 4 mm (S)	0	-	0	-	0	-	0	-	0	-	0	-	
b. 4 to 2 mm (S)	0	-	0	-	0	-	0	-	0	-	0	-	
c. 2 to 1 mm (S)	0	-	0	-	0	-	0.1	-	0	-	0.1	-	
d. 1 to .500 mm (S)	0.1	-	0.1	-	0.1	-	0.3	-	0.1	-	0.2	-	
e. .500 to .250 mm (S)	0.1	-	0.3	-	0.9	-	0.8	-	0.4	-	1.2	-	
f. .250 to .125 mm (S)	0.3	-	0.6	-	0.6	-	0.8	-	0.4	-	1.1	-	
g. .125 to .062 mm (S)	0.5	-	0.8	-	0.9	-	0.3	-	0.3	-	0.4	-	
h. .062 to .031 mm (S)	2.5	-	2.2	-	2.5	-	2.7	-	2.3	-	2.4	-	
i. .031 to .016 mm (S)	8.5	-	10.0	-	7.0	-	9.0	-	11.5	-	9.0	-	
j. .016 to .008 mm (S)	7.0	-	8.0	-	8.0	-	9.0	-	9.0	-	8.0	-	
k. .008 to .004 mm (S)	12.0	-	11.0	-	11.0	-	12.0	-	12.0	-	14.0	-	
l. .004 to .002 mm (S)	13.0	-	12.0	-	13.0	-	12.0	-	12.0	-	12.0	-	
m. .002 to .001 mm (S)	13.0	-	9.0	-	13.0	-	13.0	-	10.0	-	10.0	-	
n. <.001 mm (S)	43.0	-	46.0	-	43.0	-	40.0	-	42.0	-	42.0	-	
o. Median Diameter (mm)	.0015	-	.0015	-	.0015	-	.0018	-	.0018	-	.0020	-	
p. Sorting Coefficient	-	-	-	-	-	-	-	-	-	-	-	-	
q. Skewness	-	-	-	-	-	-	-	-	-	-	-	-	
r. Standard Deviation (mm)	-	-	-	-	-	-	-	-	-	-	-	-	
s. Sediment Type	Silty clay	Silty clay	Silty clay	Silty clay	Silty clay	Silty clay	Silty clay	Silty clay	Silty clay	Silty clay	Silty clay	Silty clay	
t. Dominant Minerals (%)	Calcite 60% Quartz 35% Muscovite 5%	Calcite 40% Quartz 40% Muscovite 10%	Calcite 50% Quartz 40% Muscovite 10%	Quartz 60% Calcite 30% Muscovite 10%	Quartz 50% Calcite 40% Muscovite 10%	Quartz 40% Calcite 30% Muscovite 10%	Quartz 50% Calcite 40% Muscovite 10%						
u. Secondary Minerals (%)	Limonite 100%	Limonite 100%	Limonite 100%	Limonite 100%	Limonite 100%	Limonite 100%	Limonite 100%	Limonite 100%	Limonite 100%	Limonite 100%	Limonite 100%	Limonite 100%	
v. Calcium Carbonate (%)	7.44	-	7.29	-	8.13	-	6.87	-	7.30	-	8.54	-	
w. Organic Carbon (%)	-	-	-	-	-	-	-	-	-	-	-	-	
x. REMARKS	CaCO <sub>3</sub> (%) 0.96 MgCO <sub>3</sub> (%) 6.48	0.70 6.59	0.52 7.61	0.52 6.35	0.54 6.76	0.34 8.20	0.54 7.25	0.54 8.20	0.34 7.25	0.54 8.20	0.54 7.25	0.54 8.20	

**CORE ANALYSIS SUMMARY SHEET**  
**SEDIMENT SIZE AND COMPOSITION**

ANALYZED IN NCEL - Pt. Hueneue

DATE 6 May 1963

NAVOCANO-SD-34976-A Rev. 1-63

1. CRUISE NO. Project D-5		4. SAMPLE NO. BS-21 continued		7. TYPE CORE Kullenberg, gravity	
2. LATITUDE	31° 15'.1'	5. DATE TAKEN (DAY, MO., YR.)	4/12/62	6. CORE LENGTH (cm)	315
3. LONGITUDE	120° 41'.2'	6. WATER DEPTH (m)	3744	9. CORE PENETRATION (cm)	Not Recorded
10. LABORATORY NUMBER	BS-21-15	BS-21-16	BS-21-17	BS-21-18	BS-21-19
11. SUBSAMPLE DEPTH IN CORE (cm)	196-206	213-221	229-236	244-251	259-267
12. COLOR (GSA ROCK COLOR CHART) [ ] FIELD [ ] LAB DETERMINATION	5Y6/4	10X8.5/4	5Y6/4	10X8.5/4	10X8.5/4
13. ODOR	none	none	none	none	none
14. SIZE & COMPOSITION ANALYSIS					
a.	> 4 mm (S)	-	0	-	0
b. .4 to .2 mm (S)	-	0	-	0	0
c. .2 to .1 mm (S)	-	0	-	0	0
d. .1 to .050 mm (S)	-	0.1	-	0	0.1
e. .050 to .250 mm (S)	-	0.2	-	0.1	0.2
f. .250 to .125 mm (S)	-	1.0	-	0.9	1.5
g. .125 to .062 mm (S)	-	1.0	-	2.5	3.4
h. .062 to .031 mm (S)	-	5.0	-	6.5	6.0
i. .031 to .016 mm (S)	-	12.0	-	12.0	12.0
j. .016 to .008 mm (S)	-	8.0	-	9.0	14.0
k. .008 to .004 mm (S)	-	11.0	-	12.0	9.0
l. .004 to .002 mm (S)	-	11.0	-	11.0	12.0
m. .002 to .001 mm (S)	-	10.0	-	10.0	10.0
n. < .001 mm (S)	-	41.0	-	39.0	6.0
o. Median Diameter (mm)	-	.0019	-	.0026	.0023
p. Sorting Coefficient	-	-	-	-	.0050
q. Skewness	-	-	-	-	-
r. Standard Deviation (mm)	-	-	-	-	-
s. Sediment Type	Silty clay	Silty clay	Silty clay	Silty clay	Silty clay
t. Dominant Minerals (S)	Quartz 50%	Quartz 50%	Calcite 40%	Calcite 90%	Calcareous 100%
Plus 32S fraction	Calcite 40%	Muscovite 10%	Quartz 40%	Muscovite 10%	Limonite
u. Secondary Minerals (S)	Muscovite	Limonite			
v. Calcium Carbonate (%)	8.88	-	7.66	-	7.96
w. Organic Carbon (%)	-	-	-	-	-
x. Remarks	CaCO <sub>3</sub> (%) 0.71	MgCO <sub>3</sub> (%) 8.17	0.50	0.50	0.96
			7.16	5.76	7.00

**CORE ANALYSIS SUMMARY SHEET**  
**SEDIMENT SIZE AND COMPOSITION**

NAVOCLAND-BR-3107/18-A Rev. 1-63

ANALYST # NCEL - Pt. Hueneme

DATE . 6 May 1963

1. CRUISE NO. Project D-5		4. SAMPLE NO. BS-22		5. DATE TAKEN (DAY, MO., YR.) 5/12/62		6. CORE LENGTH (cm) 300		7. TYPE CORE Kullenberg, gravity	
2. LATITUDE 31° 05'.8'		3. LONGITUDE 120° 41'.7'		6. WATER DEPTH (m) 3740		9. CORE PENETRATION (cm) Not recorded			
10. LABORATORY NUMBER	BS-22-1	BS-22-2	BS-22-3	BS-22-4	BS-22-5	BS-22-6	BS-22-7	BS-22-8	BS-22-9
11. SUBSAMPLE DEPTH IN CORE (cm)	0.0-7.6	5.2-21.9	30.5-38.1	45.7-53.3	61.0-68.6	76.2-83.8	91.4-99.1	107-114	122-130
12. COLOR (GSA ROCK COLOR CHART) FIELD <input checked="" type="checkbox"/> LAB DETERMINATION	10YR2/2	10YR2/2	10YR2/2	10YR5/4	10YR5/4	10YR5/4	10YR4/2	10YR4/2	10YR4/2
13. ODOR	none	none	none	none	none	none	none	none	none
14. SIZE & COMPOSITION ANALYSIS									
a. > 4 mm (S)	0	-	0	-	0	-	0	-	0
b. 4 to 2 mm (S)	0	-	0	-	0	-	0	-	0
c. 2 to 1 mm (S)	0	-	0	-	0	-	0	-	0
d. 1 to .500 mm (S)	0.2	-	0.1	-	0.1	-	0	-	0
e. .500 to .250 mm (S)	0.8	-	0.2	-	0.1	-	0	-	0.1
f. .250 to .125 mm (S)	1.5	-	0.2	-	0	-	0	-	0.1
g. .125 to .062 mm (S)	2.5	-	0.5	-	0	-	0.1	-	0.1
h. .062 to .031 mm (S)	1.5	-	3.0	-	1.8	-	1.9	-	2.9
i. .031 to .016 mm (S)	3.5	-	12.0	-	9.0	-	7.0	-	11.0
j. .016 to .008 mm (S)	7.0	-	9.0	-	11.0	-	9.0	-	11.0
k. .008 to .004 mm (S)	16.0	-	12.0	-	13.0	-	13.0	-	14.0
l. .004 to .002 mm (S)	15.0	-	11.0	-	11.0	-	12.0	-	13.0
m. .002 to .001 mm (S)	14.0	-	10.0	-	8.0	-	12.0	-	10.0
n. <.001 mm (S)	38.0	-	42.0	-	46.0	-	45.0	-	44.0
o. Median Diameter (mm)	.0019	-	.0018	-	.0016	-	.0015	-	.0020
p. Sorting Coefficient	-	-	-	-	-	-	-	-	-
q. Skewness	-	-	-	-	-	-	-	-	-
r. Standard Deviation (mm)	-	-	-	-	-	-	-	-	-
s. Sediment Type	Silty clay	Silty clay	Silty clay	Silty clay	Silty clay	Silty clay	Silty clay	Silty clay	Silty clay
t. Dominant Minerals	Calcareous Quartz Muscovite	60% 40% 10%	Calcareous Quartz Muscovite	50% 40% 10%	Limonite Quartz Calcite	70% 20% 10%	Calcareous Quartz Muscovite	40% 30% 30%	Limonite Quartz Calcareous
Plus 325 fraction									
u. Secondary Minerals	Limonite	Muscovite							
v. Calcium Carbonate	(S)	7.81	-	9.16	-	10.05	-	9.03	-
w. Organic Carbon	(S)	-	-	-	-	-	-	-	-
x. REMARKS	Caco3(%)	0.79	0.74	0.80	0.80	0.78	0.78	0.69	0.69
	Mgco3(%)	7.02	8.42	9.25	8.23	8.22	8.06	8.61	8.61

**CORE ANALYSIS SUMMARY SHEET**  
**SEDIMENT SIZE AND COMPOSITION**

ANALYST # NCEL - Pt. Huene

DATE 6 May 1963

NAVOCLAND-BR-319718-A Rev 1-63

1. CRUISE NO.	Project D-5	4. SAMPLE NO.	BS-22 Continued	7. TYPE CORE	Kullenberg, gravity
2. LATITUDE	31 ° 05.8'	5. DATE TAKEN (DAY, MO., YR.)	5/12/62	6. CORE LENGTH (cm)	300
3. LONGITUDE	120 ° 41.7'	6. WATER DEPTH (m)	3740	9. CORE PENETRATION (m)	Not recorded
10. LABORATORY NUMBER	BS-22-14	BS-22-15	BS-22-14	BS-22-15	BS-22-15
11. SUBSAMPLE DEPTH IN CORE (cm)	198-206	213-221	229-236	244-251	259-267
12. COLOR (GSA ROCK COLOR CHART) [FIELD] [LAB DETERMINATION]	10YR5/4	10YR5/4	10YR5/4	10YR5/4	10YR5/4
13. ODOR	None	None	None	None	None
14. SIZE & COMPOSITION ANALYSIS					
a.	> 4 mm (S)	0	—	0	—
b.	.10-2 mm (S)	0	—	0	—
c.	.10-1 mm (S)	0	—	0	—
d.	.10-.500 mm (S)	0	—	0.1	—
e.	.500-.250 mm (S)	0	—	0.4	—
f.	.250-.125 mm (S)	0	—	0.2	—
g.	.125-.062 mm (S)	0	—	0.3	—
h.	.062-.031 mm (S)	3.0	—	2.0	—
i.	.031-.016 mm (S)	14.0	—	8.0	—
j.	.016-.008 mm (S)	10.0	—	7.0	—
k.	.008-.004 mm (S)	10.0	—	12.0	—
l.	.004-.002 mm (S)	11.0	—	13.0	—
m.	.002-.001 mm (S)	9.0	—	13.0	—
n.	<.001 mm (S)	42.0	—	44.0	—
o. Median Diameter (mm)	—	.0019	—	.0015	—
p. Sorting Coefficient	—	—	—	—	—
q. Skewness	—	—	—	—	—
r. Standard Deviation (mm)	—	—	—	—	—
s. Sediment Type	Calcareous clay	Calcareous clay	Calcareous clay	Calcareous clay	Calcareous clay
t. Dominant Minerals (S)	Limonite Calcite Quartz	60% Limonite 40% Calcite Quartz	60% Limonite 30% Calcite 10% Quartz	50% Limonite 30% Calcite 10% Quartz	50% Limonite 40% Calcite 10% Quartz
Plus 325 fraction	—	—	—	—	—
u. Secondary Minerals (S)	Muscovite	Muscovite	Muscovite	Muscovite	Muscovite
v. Calcium Carbonate (%)	8.36	—	13.55	—	10.10
w. Organic Carbon (%)	—	—	—	—	—
x. REMARKS	1.04	4.55	2.45	9.10	7.65

CORE ANALYSIS SUMMARY SHEET  
SEDIMENT SIZE AND COMPOSITION

ANALYZED BY STEWART

NAVOCANO EXP-3107/18-A (Rev. 1-63)

1. CRUISE NO.	D-5	4. SAMPLE NO.	BS-23	7. TYPE CORE	KULLENBERG
2. LATITUDE	30° 55'3" N	5. DATE TAKEN (DAY, MO., YR.)	5 DEC.	8. CORE LENGTH (cm)	254.0
3. LONGITUDE	120° 37'4" W	6. WATER DEPTH (m)	3712	9. CORER PENETRATION (cm)	
10. LABORATORY NUMBER	182-50	11. SUBSAMPLE DEPTH IN CORE (cm)	182-52	182-53	182-54
	0-10	10-17	182-52	182-53	182-54
12. COLOR (GSA ROCK COLOR CHART)	10YR 4 1/2	10YR 5 1/2	67-74	100-107	103-110
EFIELD <input checked="" type="checkbox"/> LAB DETERMINATION	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
13. ODOR					
14. SIZE & COMPOSITION ANALYSIS					
a.	> 4 mm (s)	b. 4 to 2 mm (s)	c. 2 to 1 mm (s)	d. 1 to .500 mm (s)	TRACE
e. .500 to .250 mm (s)	TRACE	f. .250 to .125 mm (s)	TRACE	g. .125 to .062 mm (s)	TRACE
h. .062 to .031 mm (s)	TRACE	i. .031 to .016 mm (s)	9	j. .016 to .008 mm (s)	8
k. .008 to .004 mm (s)	20	l. .004 to .002 mm (s)	9	m. .002 to .001 mm (s)	11
n. < .001 mm (s)	20	o. Median Diameter (mm)	42	p. Sorting Coefficient	4.00
q. Skewness	4.08	r. Standard Deviation (mm)	0.73	s. Sediment Type	Silty Clay
t. Dominant Minerals (s)		u. Secondary Minerals (s)		v. Calcium Carbonate (%)	12
w. Organic Carbon (%)	0.72	x. DISTINCT LAYER OF CLEAN VOLCANIC GLASS SHARDS AT 238 TO 243 CM. IN RED CLAY		y. Remarks	
DATE					

**CORE ANALYSIS SUMMARY SHEET**  
**SEDIMENT SIZE AND COMPOSITION**

TRANSLATED BY STEWART

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1. CRUISE NO.	D-5	4. SAMPLE NO.	BS-24	7. TYPE CORER	KULLENBERG
2. LATITUDE	30° 45.7' N.	5. DATE TAKEN (DAY, MO., YR.)	5 Dec. '62	8. CORE LENGTH (cm)	244.0
3. LONGITUDE	120° 32' W.	6. WATER DEPTH (m)	376.7	9. CORER PENETRATION (cm)	
10. LABORATORY NUMBER	182-59	11. SUBSAMPLE DEPTH IN CORE (cm)	182-60	12. COLOR (GSA ROCK COLOR CHART)	0-10 0-YR 3/4 0-YR 4/2 0-YR 4/2 L
13. OODR		14. SIZE & COMPOSITION ANALYSIS		15. REMARKS	
a. > 4 mm (s)		b. .4 to .2 mm (s)		v. Calcium Carbonate (s)	
c. .2 to .1 mm (s)		d. .1 to .050 mm (s)		w. Organic Carbon (s)	
e. .500 to .250 mm (s)		f. .250 to .125 mm (s)		x. FINE LAYER OF VOLCANIC GLASS SHARDS AT 85 TO 90 CM.	
g. .125 to .062 mm (s)		h. .062 to .031 mm (s)		y. LAYER OF GLOBIGERINA Ooze AT 237 TO 244 CM.	
i. .031 to .016 mm (s)		j. .016 to .008 mm (s)		z. OTHERWISE UNIFORM RED CLAY	
k. .008 to .004 mm (s)		l. .004 to .002 mm (s)			
m. .002 to .001 mm (s)		n. <.001 mm (s)			
o. Median Diameter (mm)	0.003	p. Sorting Coefficient	0.003	q. Skewness	0.004
r. Standard Deviation (mm)		r. Standard Deviation (mm)	0.002	s. Sediment Type	0.002
s. Secondary Minerals (s)	.	t. Dominant Minerals (s)		u. Secondary Minerals (s)	
v. Calcium Carbonate (s)	1/3	w. Organic Carbon (s)	0.74	x. FINE LAYER OF VOLCANIC GLASS SHARDS AT 85 TO 90 CM.	
y. LAYER OF GLOBIGERINA Ooze AT 237 TO 244 CM.		z. OTHERWISE UNIFORM RED CLAY			

**CORE ANALYSIS SUMMARY SHEET**  
**SEDIMENT SIZE AND COMPOSITION**

ANALYST: M. NCEL - Pt. Huemele

DATE: 7 May 1963

NAVOCANDA-BP-3157/6A Rev 1-631

1. CRUISE NO. Project D-5		4. SAMPLE NO. BS-25		5. DATE TAKEN (DAY, MO., YR.) 5/12/62		6. CORE LENGTH (cm) 305		7. TYPE CORE Kullenberg, gravity	
2. LATITUDE 30° 44.5'		5. WATER DEPTH (m) 3822		6. CORE PENETRATION (cm)		7. CORE PENETRATION (cm) Not recorded		8. CORE PENETRATION (cm) 25-25-7/1 25-25-7/1 25-25-7/1 25-25-7/1 25-25-7/1 25-25-7/1 25-25-7/1 25-25-7/1	
3. LONGITUDE 120° 39.7'		9. COLOR (GSA ROCK COLOR CHART)		10. LABORATORY NUMBER		11. SUBSAMPLE DEPTH IN CORE (cm)		12. COLOR (GSA ROCK COLOR CHART)	
10. LABORATORY NUMBER	BS-25-1	BS-25-2	BS-25-3	BS-25-4	BS-25-5	BS-25-6	BS-25-7	BS-25-8	BS-25-9
11. SUBSAMPLE DEPTH IN CORE (cm)	0.0-7.2	12.2-22.9	30.5-37.1	45.7-53.3	62.0-68.6	76.2-83.8	91.4-99.1	107.1-114.0	122.1-130
12. COLOR (GSA ROCK COLOR CHART)	10YR2/2	10YR2/2	10YR4/2	10YR4/2	10YR4/2	10YR4/2	10YR4/2	10YR4/2	10YR4/2
13. FIELD <input checked="" type="checkbox"/> LAB DETERMINATION	[L]	[L]	[L]	[L]	[L]	[L]	[L]	[L]	[L]
13. ODOR	none	none	none	none	none	none	none	none	none
14. SIZE & COMPOSITION ANALYSIS									
a. > 4 mm [S]	0	-	0	-	0	-	0	-	0
b. 4 to 2 mm [S]	0	-	0	-	0	-	0	-	0
c. 2 to 1 mm [S]	0	-	0	-	0	-	0	-	0
d. 1 to .500 mm [S]	0.2	-	0	-	0	-	0	-	0
e. .500 to .250 mm [S]	0.3	-	0.1	-	0	-	0.1	-	0.1
f. .250 to .125 mm [S]	0.4	-	0.1	-	0.1	-	0	-	0
g. .125 to .062 mm [S]	0.6	-	0.3	-	0.2	-	0.1	-	0.1
h. .062 to .031 mm [S]	1.0	-	1.5	-	0.6	-	0.2	-	1.3
i. .031 to .016 mm [S]	2.5	-	6.0	-	2.0	-	1.5	-	9.5
j. .016 to .008 mm [S]	4.5	-	6.0	-	9.0	-	8.0	-	9.0
k. .008 to .004 mm [S]	10.5	-	13.0	-	14.0	-	4.0	-	11.0
l. .004 to .002 mm [S]	17.0	-	14.0	-	14.0	-	24.0	-	12.0
m. .002 to .001 mm [S]	21.0	-	13.0	-	13.0	-	13.0	-	10.0
n. < .001 mm [S]	42.0	-	46.0	-	47.0	-	49.0	-	44.0
o. Median Diameter (mm)	.0014	-	.0014	-	.0013	-	.0011	-	.0015
p. Sorting Coefficient	-	-	-	-	-	-	-	-	-
q. Skewness	-	-	-	-	-	-	-	-	-
r. Standard Deviation (mm)	-	-	-	-	-	-	-	-	-
s. Sediment Type	Clay	Clay	Clay	Clay	Clay	Silty clay	Silty clay	Silty clay	Silty clay
t. Dominant Minerals (%)	Calcite 60%	Calcite 60%	Calcite 70%	Calcite 70%	Calcite 70%	Limonite 10%	Limonite 10%	Limonite 10%	Limonite 10%
Plus 32.5% fraction	Quartz 40%	Quartz 40%	Quartz 20%	Quartz 20%	Quartz 20%	Muscovite 10%	Muscovite 10%	Muscovite 10%	Muscovite 10%
u. Secondary Minerals (%)	Limonite	Limonite	Limonite	Limonite	Limonite	Limonite	Limonite	Limonite	Limonite
v. Calcium Carbonate (%)	8.48	-	8.26	-	7.85	-	8.02	-	7.58
w. Organic Carbon (%)	-	-	-	-	-	-	-	-	-
15. REMARKS	CaCO <sub>3</sub> (%) 0.90	0.76	0.88	0.88	0.78	0.88	0.78	0.81	0.81
	MgCO <sub>3</sub> (%) 7.58	7.50	6.97	7.14	6.80	5.91	6.80	5.91	6.89

**CORE ANALYSIS SUMMARY SHEET**  
**SEDIMENT SIZE AND COMPOSITION**

ANALYZED BY NCETL - Pt. Bueneme

DATE 7 May 1963

NAVOCLAND-BR-1977B-A Rev. 1-63

1. CRUISE NO. Project D-5	4. SAMPLE NO. BS-25 continued	7. TYPE CORE Kullenberg, gravity
2. LATITUDE 30° 44.5'	5. DATE TAKEN (DAY, MO., YR.) 5/12/62	6. CORE LENGTH (cm) 305
3. LONGITUDE 120° 39.7'	6. WATER DEPTH (m) 3822	9. CORE PENETRATION (cm) Not recorded
10. LABORATORY NUMBER BS-25-4/BS-25-16	7.5-25-1/16	7.5-25-1/16
11. SUBSAMPLE DEPTH IN CORE (cm) 198 - 206	213 - 221	229 - 236
12. COLOR (GSA ROCK COLOR CHART) FIELD <input checked="" type="checkbox"/> LAB DETERMINATION	10YR5/4 L	10YR5/4 L
13. ODOR	none	none
14. SIZE & COMPOSITION ANALYSIS		
a. > 4 mm (S)	-	-
b. .4 to .2 mm (S)	0	0
c. .2 to 1 mm (S)	0	0
d. .1 to .500 mm (S)	0.1	0.1
e. .500 to .250 mm (S)	0.2	0.4
f. .250 to .125 mm (S)	0.1	0.2
g. .125 to .062 mm (S)	0.2	0.2
h. .062 to .031 mm (S)	2.4	1.1
i. .031 to .016 mm (S)	8.0	7.0
j. .016 to .008 mm (S)	8.0	8.0
k. .008 to .004 mm (S)	13.0	13.0
l. .004 to .002 mm (S)	13.0	13.0
m. .002 to .001 mm (S)	13.0	10.0
n. <.001 mm (S)	42.0	47.0
o. Median Diameter (mm)	.0017	.0013
p. Sorting Coefficient	-	-
q. Skewness	-	-
r. Standard Deviation (mm)	-	-
s. Sediment Type	Silty clay	Silty clay
t. Dominant Minerals (S)	Calcareous Quartz Limonite Muscovite	Limonite 20% Quartz 10% Muscovite
Plus 325 fraction		
u. Secondary Minerals (S)	Muscovite	10%
v. Calcium Carbonate (%)	8.68	8.36
w. Organic Carbon (%)	-	-
x. REMARKS	CaCO <sub>3</sub> (%) 1.02 MgCO <sub>3</sub> (%) 7.66	0.86 7.50 0.56 7.66

**CORE ANALYSIS SUMMARY SHEET**  
**SEDIMENT SIZE AND COMPOSITION**

NAVOCLEAND-BR-310718-A (Rev. 1-63)

ANALOGY OR NCEL - Pt. Hueneme

Patt 8 May 1963

1. CRUISE NO. Project D-5		4. SAMPLE NO. BS-26		5. DATE TAKEN (DAY, MO., YR.) 6/12/62		6. CORE LENGTH (cm) 290		7. TYPE CORER Kullenberg, gravity	
2. LATITUDE 30° 43.3'	3. LONGITUDE 120° 49.9'	6. WATER DEPTH (m) 3786	9. CORE PENETRATION (cm) Not recorded	8. CORE LENGTH (cm)	9. CORE LENGTH (cm)	10. LABORATORY NUMBER BS-26-1	11. SUBSAMPLE DEPTH IN CORE (cm) 0.0-76	12. COLOR (GSA ROCK COLOR CHART) EFIELD LAB DETERMINATION	
10. LABORATORY NUMBER	BS-26-2	BS-26-3	BS-26-4	BS-26-5	BS-26-6	BS-26-7	BS-26-8	BS-26-9	
11. SUBSAMPLE DEPTH IN CORE (cm)	152-229	305-321	457-533	610-686	762-838	914-991	1071-1145	1221-1300	
12. COLOR (GSA ROCK COLOR CHART) EFIELD LAB DETERMINATION	10YR4/2	10YR4/2	10YR4/2	10YR5/4	10YR5/4	10YR4/2	10YR4/2	10YR5/4	
13. ODOR	none	none	none	none	none	none	none	none	
14. SIZE & COMPOSITION ANALYSIS									
a. > 4 mm (S)	0	-	0	-	0	-	0	-	
b. 4 to 2 mm (S)	0	-	0	-	0	-	0	-	
c. 2 to 1 mm (S)	0	-	0	-	0	-	0	-	
d. 1 to .500 mm (S)	0	-	0	-	0	-	0.1	-	
e. .500 to .250 mm (S)	0.1	-	0	-	0.1	-	0.1	-	
f. .250 to .125 mm (S)	0.4	-	0.1	-	0.1	-	0.2	-	
g. .125 to .062 mm (S)	0.3	-	0.5	-	0.3	-	0.2	-	
h. .062 to .031 mm (S)	0.4	-	0.3	-	0.6	-	0.7	-	
i. .031 to .016 mm (S)	4.8	-	7.0	-	6.0	-	10.5	-	
j. .016 to .008 mm (S)	12.0	-	10.0	-	8.0	-	9.5	-	
k. .008 to .004 mm (S)	14.0	-	13.0	-	14.0	-	13.0	-	
l. .004 to .002 mm (S)	16.0	-	12.0	-	11.0	-	12.0	-	
m. .002 to .001 mm (S)	16.0	-	8.0	-	7.0	-	12.0	-	
n. <.001 mm (S)	36.0	-	49.0	-	53.0	-	47.0	-	
o. Median Diameter (mm)	.0018	-	.0012	-	.0005	-	.0013	-	
p. Sorting Coefficient	-	-	-	-	-	-	-	-	
q. Skewness	-	-	-	-	-	-	-	-	
r. Standard Deviation (mm)	-	-	-	-	-	-	-	-	
s. Sediment Type	Silt clay	Clay	Silt clay	Clay	Silt clay	Clay	Silt clay	Clay	
t. Dominant Minerals	Calcite 40%	Limonite 6.0%	Limonite 70%	Muscovite 6.0%	Muscovite 20%	Muscovite 20%	Muscovite 20%	Muscovite 70%	
Plus 325 fraction	Quartz 30%	Calcite 20%	Calcite 30%	Muscovite 20%	Limonite 20%	Quartz 20%	Quartz 20%	Quartz 20%	
u. Secondary Minerals	Limonite 30%	Quartz 15%	Quartz 15%	Muscovite 15%	Quartz 10%	Muscovite 10%	Muscovite 10%	Muscovite 5%	
v. Calcium Carbonate	(S)	8.32	-	8.28	-	7.54	-	6.85	
w. Greenish Carbon	(S)	-	-	-	-	-	-	-	
x. REMARKS	CaCO <sub>3</sub> (%) 0.80	0.63	0.71	0.87	0.53	0.69	0.71	0.67	
	MgCO <sub>3</sub> (%) 7.52	7.65	6.83	5.98	6.93	6.93	6.83	6.88	

**CORE ANALYSIS SUMMARY SHEET**  
**SEDIMENT SIZE AND COMPOSITION**

ANALYST NCEL - Pt. Hueneme

DATE 8 May 1963

NAVOCANO-BP-397/BS-A Rev. 1-63

1. CRUISE NO. Project D-5	4. SAMPLE NO. BS-26 continued	7. TYPE CORE Kullenberg, gravity
2. LATITUDE 30° 43'.3'	5. DATE TAKEN (DAY, MO., YR.) 6/12/62	8. CORE LENGTH (cm) 290
3. LONGITUDE 120° 49.9'	6. WATER DEPTH (m) 3786	9. CORE PENETRATION (cm) Not recorded
10. LABORATORY NUMBER	BS-26-15	BS-26-17 BS-26-19
11. SUBSAMPLE DEPTH IN CORE (cm)	BS-26-22/ 23-24/ 24-25/ 25-26/ 27-28/	BS-26-17 BS-26-19
12. COLOR (GSA ROCK COLOR CHART) FIELD <input checked="" type="checkbox"/> LAB DETERMINATION	10YR 5/4 10YR 5/4 10YR 5/4 10YR 5/4	10YR 5/4 10YR 5/4
13. ODOR	none none none none	none none
14. SIZE & COMPOSITION ANALYSIS		
a. > 4 mm (S)	-	-
b. .4 to 2 mm (S)	0	0
c. .2 to 1 mm (S)	0	0
d. .1 to .500 mm (S)	0	0
e. .500 to .250 mm (S)	0	0.1
f. .250 to .125 mm (S)	0.1	0.2
g. .125 to .062 mm (S)	0.3	0.7
h. .062 to .031 mm (S)	3.1	3.0
i. .031 to .016 mm (S)	8.5	7.0
j. .016 to .008 mm (S)	8.0	9.0
k. .008 to .004 mm (S)	14.0	11.0
l. .004 to .002 mm (S)	12.0	12.0
m. .002 to .001 mm (S)	11.0	9.0
n. <.001 mm (S)	.43.0	.48.0
o. Median Diameter (mm)	.0017	.0013
p. Sorting Coefficient	-	.00050
q. Skewness	-	-
r. Standard Deviation (mm)	-	-
s. Sediment Type	Silty clay	Silky clay
t. Dominant Minerals (S)	Mn oxide Calcite Muscovite	Calcite Muscovite Limonite
Plus 325 fraction	Limonite	Quartz
u. Secondary Minerals (S)		
v. Calcium Carbonate (%)	0.81	0.75
w. Organic Carbon (%)	6.63	7.38
15. REMARKS	CaCO <sub>3</sub> (%) 0.81 MgCO <sub>3</sub> (%) 6.63	0.52 3.23

**CORE ANALYSIS SUMMARY SHEET  
SEDIMENT SIZE AND COMPOSITION**

NAVOCANO-EXP. 3167/18-A (Rev. 1-63)

ANALYZED BY STEWART

DATE

**CORE ANALYSIS SUMMARY SHEET**  
**SEDIMENT SIZE AND COMPOSITION**

ANALYZED BY STEWART

NAVOCFANO-ERP-3167/76-A (Rev. 1-63)

1. CRUISE NO.	D-5	14. SAMPLE NO.	BS-28	7. TYPE CORER	KUHLENBERG
2. LATITUDE	30° 46.8'	15. DATE TAKEN (DAY, MO., YR.)	6 DEC. '62	8. CORE LENGTH (cm)	208.3
3. LONGITUDE	121° 45.2'	16. WATER DEPTH (m)	4133	9. CORER PENETRATION (cm)	
10. LABORATORY NUMBER	182-76	17. SUBSAMPLE DEPTH IN CORE (cm)	182-77	18. SUBSAMPLE DEPTH IN CORE (cm)	182-79
11. COLOR (GSA ROCK COLOR CHART)	0-10	19. COLOR (GSA ROCK COLOR CHART)	27-37	20. COLOR (GSA ROCK COLOR CHART)	65-72
12. COLOR (FIELD) <input checked="" type="checkbox"/> LAB DETERMINATION	YR4/2	21. COLOR (FIELD) <input checked="" type="checkbox"/> LAB DETERMINATION	YR4/2	22. COLOR (FIELD) <input checked="" type="checkbox"/> LAB DETERMINATION	YR4/2
13. ODOR					
14. SIZE & COMPOSITION ANALYSIS					
a.	7	b.	4	c.	mm (in)
b.	.4	c.	.2	d.	mm (%)
c.	.2	d.	.1	e.	mm (%)
d.	.1	e.	.500	f.	mm (%)
e.	.500	f.	.250	g.	mm (%)
f.	.250	g.	.125	h.	mm (%)
g.	.125	h.	.062	i.	mm (%)
h.	.062	i.	.031	j.	mm (%)
i.	.031	j.	.016	k.	mm (%)
j.	.016	k.	.008	l.	mm (%)
k.	.008	l.	.004	m.	mm (%)
l.	.004	m.	.002	n.	mm (%)
m.	.002	n.	.001	o.	mm
n.	<.001	o.	Median Diameter	p.	mm
o.	Median Diameter	p.	Sorting Coefficient	q.	
p.	0.001	q.	3.04	r.	Skewness
q.	0.002	r.	3.32	s.	Standard Deviation (mm)
r.	0.002	s.	3.74	t.	Sediment Type
s.	0.001	t.	3.50	u.	Dominant Minerals
t.	0.001	u.	3.16	v.	Secondary Minerals
u.	0.001	v.	2.86	w.	Dominant Minerals
v.	0.001	w.	3.25	x.	Secondary Minerals
w.	0.001	x.	4.44	y.	Dominant Minerals
x.	0.001	y.	3.79	z.	Secondary Minerals
y.	0.001	z.	0.79	aa.	Dominant Minerals
z.	0.001	aa.	0.82	bb.	Secondary Minerals
aa.	0.001	bb.	0.82	cc.	Dominant Minerals
bb.	0.001	cc.	0.79	dd.	Secondary Minerals
cc.	0.001	dd.	0.79	ee.	Dominant Minerals
dd.	0.001	ee.	0.79	ff.	Secondary Minerals
ee.	0.001	ff.	0.79	gg.	Dominant Minerals
ff.	0.001	gg.	0.79	hh.	Secondary Minerals
gg.	0.001	hh.	0.79	ii.	Dominant Minerals
hh.	0.001	ii.	0.79	jj.	Secondary Minerals
ii.	0.001	jj.	0.79	kk.	Dominant Minerals
jj.	0.001	kk.	0.79	ll.	Secondary Minerals
kk.	0.001	ll.	0.79	mm.	Dominant Minerals
ll.	0.001	mm.	0.79	nn.	Secondary Minerals
mm.	0.001	nn.	0.79	oo.	Dominant Minerals
nn.	0.001	oo.	0.79	pp.	Secondary Minerals
oo.	0.001	pp.	0.79	qq.	Dominant Minerals
pp.	0.001	qq.	0.79	rr.	Secondary Minerals
qq.	0.001	rr.	0.79	ss.	Dominant Minerals
rr.	0.001	ss.	0.79	tt.	Secondary Minerals
ss.	0.001	tt.	0.79	uu.	Dominant Minerals
tt.	0.001	uu.	0.79	vv.	Secondary Minerals
uu.	0.001	vv.	0.79	ww.	Dominant Minerals
vv.	0.001	ww.	0.79	xx.	Secondary Minerals
ww.	0.001	xx.	0.79	yy.	Dominant Minerals
xx.	0.001	yy.	0.79	zz.	Secondary Minerals
yy.	0.001	zz.	0.79	aa.	Dominant Minerals
zz.	0.001	aa.	0.79	bb.	Secondary Minerals
aa.	0.001	bb.	0.79	cc.	Dominant Minerals
bb.	0.001	cc.	0.79	dd.	Secondary Minerals
cc.	0.001	dd.	0.79	ee.	Dominant Minerals
dd.	0.001	ee.	0.79	ff.	Secondary Minerals
ee.	0.001	ff.	0.79	gg.	Dominant Minerals
ff.	0.001	gg.	0.79	hh.	Secondary Minerals
gg.	0.001	hh.	0.79	ii.	Dominant Minerals
hh.	0.001	ii.	0.79	jj.	Secondary Minerals
ii.	0.001	jj.	0.79	kk.	Dominant Minerals
jj.	0.001	kk.	0.79	ll.	Secondary Minerals
kk.	0.001	ll.	0.79	mm.	Dominant Minerals
ll.	0.001	mm.	0.79	nn.	Secondary Minerals
mm.	0.001	nn.	0.79	oo.	Dominant Minerals
nn.	0.001	oo.	0.79	pp.	Secondary Minerals
oo.	0.001	pp.	0.79	qq.	Dominant Minerals
pp.	0.001	qq.	0.79	rr.	Secondary Minerals
qq.	0.001	rr.	0.79	ss.	Dominant Minerals
rr.	0.001	ss.	0.79	tt.	Secondary Minerals
ss.	0.001	tt.	0.79	uu.	Dominant Minerals
tt.	0.001	uu.	0.79	vv.	Secondary Minerals
uu.	0.001	vv.	0.79	ww.	Dominant Minerals
vv.	0.001	ww.	0.79	xx.	Secondary Minerals
ww.	0.001	xx.	0.79	yy.	Dominant Minerals
xx.	0.001	yy.	0.79	zz.	Secondary Minerals
yy.	0.001	zz.	0.79	aa.	Dominant Minerals
zz.	0.001	aa.	0.79	bb.	Secondary Minerals
aa.	0.001	bb.	0.79	cc.	Dominant Minerals
bb.	0.001	cc.	0.79	dd.	Secondary Minerals
cc.	0.001	dd.	0.79	ee.	Dominant Minerals
dd.	0.001	ee.	0.79	ff.	Secondary Minerals
ee.	0.001	ff.	0.79	gg.	Dominant Minerals
ff.	0.001	gg.	0.79	hh.	Secondary Minerals
gg.	0.001	hh.	0.79	ii.	Dominant Minerals
hh.	0.001	ii.	0.79	jj.	Secondary Minerals
ii.	0.001	jj.	0.79	kk.	Dominant Minerals
jj.	0.001	kk.	0.79	ll.	Secondary Minerals
kk.	0.001	ll.	0.79	mm.	Dominant Minerals
ll.	0.001	mm.	0.79	nn.	Secondary Minerals
mm.	0.001	nn.	0.79	oo.	Dominant Minerals
nn.	0.001	oo.	0.79	pp.	Secondary Minerals
oo.	0.001	pp.	0.79	qq.	Dominant Minerals
pp.	0.001	qq.	0.79	rr.	Secondary Minerals
qq.	0.001	rr.	0.79	ss.	Dominant Minerals
rr.	0.001	ss.	0.79	tt.	Secondary Minerals
ss.	0.001	tt.	0.79	uu.	Dominant Minerals
tt.	0.001	uu.	0.79	vv.	Secondary Minerals
uu.	0.001	vv.	0.79	ww.	Dominant Minerals
vv.	0.001	ww.	0.79	xx.	Secondary Minerals
ww.	0.001	xx.	0.79	yy.	Dominant Minerals
xx.	0.001	yy.	0.79	zz.	Secondary Minerals
yy.	0.001	zz.	0.79	aa.	Dominant Minerals
zz.	0.001	aa.	0.79	bb.	Secondary Minerals
aa.	0.001	bb.	0.79	cc.	Dominant Minerals
bb.	0.001	cc.	0.79	dd.	Secondary Minerals
cc.	0.001	dd.	0.79	ee.	Dominant Minerals
dd.	0.001	ee.	0.79	ff.	Secondary Minerals
ee.	0.001	ff.	0.79	gg.	Dominant Minerals
ff.	0.001	gg.	0.79	hh.	Secondary Minerals
gg.	0.001	hh.	0.79	ii.	Dominant Minerals
hh.	0.001	ii.	0.79	jj.	Secondary Minerals
ii.	0.001	jj.	0.79	kk.	Dominant Minerals
jj.	0.001	kk.	0.79	ll.	Secondary Minerals
kk.	0.001	ll.	0.79	mm.	Dominant Minerals
ll.	0.001	mm.	0.79	nn.	Secondary Minerals
mm.	0.001	nn.	0.79	oo.	Dominant Minerals
nn.	0.001	oo.	0.79	pp.	Secondary Minerals
oo.	0.001	pp.	0.79	qq.	Dominant Minerals
pp.	0.001	qq.	0.79	rr.	Secondary Minerals
qq.	0.001	rr.	0.79	ss.	Dominant Minerals
rr.	0.001	ss.	0.79	tt.	Secondary Minerals
ss.	0.001	tt.	0.79	uu.	Dominant Minerals
tt.	0.001	uu.	0.79	vv.	Secondary Minerals
uu.	0.001	vv.	0.79	ww.	Dominant Minerals
vv.	0.001	ww.	0.79	xx.	Secondary Minerals
ww.	0.001	xx.	0.79	yy.	Dominant Minerals
xx.	0.001	yy.	0.79	zz.	Secondary Minerals
yy.	0.001	zz.	0.79	aa.	Dominant Minerals
zz.	0.001	aa.	0.79	bb.	Secondary Minerals
aa.	0.001	bb.	0.79	cc.	Dominant Minerals
bb.	0.001	cc.	0.79	dd.	Secondary Minerals
cc.	0.001	dd.	0.79	ee.	Dominant Minerals
dd.	0.001	ee.	0.79	ff.	Secondary Minerals
ee.	0.001	ff.	0.79	gg.	Dominant Minerals
ff.	0.001	gg.	0.79	hh.	Secondary Minerals
gg.	0.001	hh.	0.79	ii.	Dominant Minerals
hh.	0.001	ii.	0.79	jj.	Secondary Minerals
ii.	0.001	jj.	0.79	kk.	Dominant Minerals
jj.	0.001	kk.	0.79	ll.	Secondary Minerals
kk.	0.001	ll.	0.79	mm.	Dominant Minerals
ll.	0.001	mm.	0.79	nn.	Secondary Minerals
mm.	0.001	nn.	0.79	oo.	Dominant Minerals
nn.	0.001	oo.	0.79	pp.	Secondary Minerals
oo.	0.001	pp.	0.79	qq.	Dominant Minerals
pp.	0.001	qq.	0.79	rr.	Secondary Minerals
qq.	0.001	rr.	0.79	ss.	Dominant Minerals
rr.	0.001	ss.	0.79	tt.	Secondary Minerals
ss.	0.001	tt.	0.79	uu.	Dominant Minerals
tt.	0.001	uu.	0.79	vv.	Secondary Minerals
uu.	0.001	vv.	0.79	ww.	Dominant Minerals
vv.	0.001	ww.	0.79	xx.	Secondary Minerals
ww.	0.001	xx.	0.79	yy.	Dominant Minerals
xx.	0.001	yy.	0.79	zz.	Secondary Minerals
yy.	0.001	zz.	0.79	aa.	Dominant Minerals
zz.	0.001	aa.	0.79	bb.	Secondary Minerals
aa.	0.001	bb.	0.79	cc.	Dominant Minerals
bb.	0.001	cc.	0.79	dd.	Secondary Minerals
cc.	0.001	dd.	0.79	ee.	Dominant Minerals
dd.	0.001	ee.	0.79	ff.	Secondary Minerals
ee.	0.001	ff.	0.79	gg.	Dominant Minerals
ff.	0.001	gg.	0.79	hh.	Secondary Minerals
gg.	0.001	hh.	0.79	ii.	Dominant Minerals
hh.	0.001	ii.	0.79	jj.	Secondary Minerals
ii.	0.001	jj.	0.79	kk.	Dominant Minerals
jj.	0.001	kk.	0.79	ll.	Secondary Minerals
kk.	0.001	ll.	0.79	mm.	Dominant Minerals
ll.	0.001	mm.	0.79	nn.	Secondary Minerals
mm.	0.001	nn.	0.79	oo.	Dominant Minerals
nn.	0.001	oo.	0.79	pp.	Secondary Minerals
oo.	0.001	pp.	0.79	qq.	Dominant Minerals
pp.	0.001	qq.	0.79	rr.	Secondary Minerals
qq.	0.001	rr.	0.79	ss.	Dominant Minerals
rr.	0.001	ss.	0.79	tt.	Secondary Minerals
ss.	0.001	tt.	0.79	uu.	Dominant Minerals
tt.	0.001	uu.	0.79	vv.	Secondary Minerals
uu.	0.001	vv.	0.79	ww.	Dominant Minerals
vv.	0.001	ww.	0.79	xx.	Secondary Minerals
ww.	0.001	xx.	0.79	yy.	Dominant Minerals
xx.	0.001	yy.	0.79	zz.	Secondary Minerals
yy.	0.001	zz.	0.79	aa.	Dominant Minerals
zz.	0.001	aa.	0.79	bb.	Secondary Minerals
aa.	0.001	bb.	0.79	cc.	Dominant Minerals
bb.	0.001	cc.	0.79	dd.	Secondary Minerals
cc.	0.001	dd.	0.79	ee.	Dominant Minerals
dd.	0.001	ee.	0.79	ff.	Secondary Minerals
ee.	0.001	ff.	0.79	gg.	Dominant Minerals
ff.	0.001	gg.	0.79	hh.	Secondary Minerals
gg.	0.001	hh.	0.79	ii.	Dominant Minerals
hh.	0.001	ii.	0.79	jj.	Secondary Minerals
ii.	0.001	jj.	0.79	kk.	Dominant Minerals
jj.	0.001	kk.	0.79	ll.	Secondary Minerals
kk.	0.001	ll.	0.79	mm.	Dominant Minerals
ll.	0.001	mm.	0.79	nn.	Secondary Minerals
mm.	0.001	nn.	0.79	oo.	Dominant Minerals
nn.	0.001	oo.	0.79	pp.	Secondary Minerals
oo.	0.001	pp.	0.79	qq.	Dominant Minerals
pp.	0.001	qq.	0.79	rr.	Secondary Minerals
qq.	0.001	rr.	0.79	ss.	Dominant Minerals
rr.	0.001	ss.	0.79	tt.	Secondary Minerals
ss.	0.001	tt.	0.79	uu.	Dominant Minerals
tt.	0.001	uu.	0.79	vv.	Secondary Minerals
uu.	0.001	vv.	0.79	ww.	Dominant Minerals
vv.	0.001	ww.	0.79	xx.	Secondary Minerals
ww.	0.001	xx.	0.79	yy.	Dominant Minerals
xx.	0.001	yy.	0.79	zz.	Secondary Minerals
yy.	0.001	zz.	0.79	aa.	Dominant Minerals
zz.	0.001	aa.	0.79	bb.	Secondary Minerals
aa.	0.001	bb.	0.79	cc.	Dominant Minerals
bb.	0.001	cc.	0.79	dd.	Secondary Minerals
cc.	0.001	dd.	0.79	ee.	Dominant Minerals
dd.	0.001	ee.	0.79	ff.	Secondary Minerals
ee.	0.001	ff.	0.79	gg.	Dominant Minerals
ff.	0.001	gg.	0.79	hh.	Secondary Minerals
gg.	0.001	hh.	0.79	ii.	Dominant Minerals
hh.	0.001	ii.	0.79	jj.	Secondary Minerals
ii.	0.001	jj.	0.79	kk.	Dominant Minerals
jj.	0.001	kk.	0.79</td		

**CORE ANALYSIS SUMMARY SHEET**  
**SEDIMENT SIZE AND COMPOSITION**

ANALYZED BY STEWART

NAVOCANO-EXP-3167/18-A (Rev. 1-63)

1. CRUISE NO.	D-5	4. SAMPLE NO.	BS-30	7. TYPE CORER	KULLENBERG
2. LATITUDE	31° 04.1'	5. DATE TAKEN (DAY, MO., YR.)	8 DEC '62	8. CORE LENGTH (cm)	319.5
3. LONGITUDE	121° 57.8'	6. WATER DEPTH (m)	4015	9. CORE PENETRATION (cm)	
10. LABORATORY NUMBER	182-85	182-86	182-87	182-88	182-91
11. SUBSAMPLE DEPTH IN CORE (cm)	0-10	10-17	27-37	37-44	66-73
12. COLOR (GSA ROCK COLOR CHART) F FIELD <input checked="" type="checkbox"/> LAB DETERMINATION	10 YR 4/2	10 YR 4/2	10 YR 4/2	10 YR 4/2	10 YR 4/2
13. ODOR					
14. SIZE & COMPOSITION ANALYSIS					
a.	> 4 mm (%)				
b.	.4 to 2 mm (%)				
c.	.2 to 1 mm (%)				
d.	.1 to .500 mm (%)				
e.	.500 to .250 mm (%)				
f.	.250 to .125 mm (%)				
g.	.125 to .062 mm (%)				
h.	.062 to .031 mm (%)				
i.	.031 to .016 mm (%)				
j.	.016 to .008 mm (%)				
k.	.008 to .004 mm (%)				
l.	.004 to .002 mm (%)				
m.	.002 to .001 mm (%)				
n.	< .001 mm (%)				
o. Median Diameter (mm)	29	30	34	33	34
p. Sorting Coefficient	3.25	3.18	3.26	3.14	2.71
q. Skewness	0.90	0.92	0.92	0.89	1.03
r. Standard Deviation (mm)					
s. Sediment Type	Silty Clay	Silty Clay	Silty Clay	Silty Clay	Silty Clay
t. Dominant Minerals (%)					
u. Secondary Minerals (%)					
v. Calcium Carbonate (%)	7	10	8	8	10
w. Organic Carbon (%)	0.95				
x. REMARKS	UNIFORM RED CLAY				

CORE ANALYSIS SUMMARY SHEET  
SEDIMENT SIZE AND COMPOSITION

ANALYZED BY STEWART

NAVOCEANO-EXP-3167/1B-A (Rev. 1-63)

1. CRUISE NO.	<u>D-5</u>	4. SAMPLE NO.	<u>B5 31</u>	7. TYPE CORER	<u>EC/MLG</u>				
2. LATITUDE	<u>31° 02' S</u>	5. DATE TAKEN (DAY, MO., YR.)	<u>8 DEC 62</u>	8. CORE LENGTH (cm)	<u>293.5 CM</u>				
3. LONGITUDE	<u>21° 33' E</u>	6. WATER DEPTH (m)	<u>39.22</u>	9. CORER PENETRATION (cm)					
10. LABORATORY NUMBER	<u>B2-96</u>	11. SUBSAMPLE DEPTH IN CORE (cm)	<u>B2-96</u>	12. COLOR (GSA ROCK COLOR CHART)	<u>20-26 38-45 100-104 100-106 100-108 100-110 100-112 100-114 100-116 100-118 100-120 100-122 100-124 100-126 100-128 100-130 100-132 100-134 100-136 100-138 100-140 100-142 100-144 100-146 100-148 100-150 100-152 100-154 100-156 100-158 100-160 100-162 100-164 100-166 100-168 100-170 100-172 100-174 100-176 100-178 100-180 100-182 100-184 100-186 100-188 100-190 100-192 100-194 100-196 100-198 100-200 100-202 100-204 100-206 100-208 100-210 100-212 100-214 100-216 100-218 100-220 100-222 100-224 100-226 100-228 100-230 100-232 100-234 100-236 100-238 100-240 100-242 100-244 100-246 100-248 100-250 100-252 100-254 100-256 100-258 100-260 100-262 100-264 100-266 100-268 100-270 100-272 100-274 100-276 100-278 100-280 100-282 100-284 100-286 100-288 100-290 100-292 100-294 100-296 100-298 100-300 100-302 100-304 100-306 100-308 100-310 100-312 100-314 100-316 100-318 100-320 100-322 100-324 100-326 100-328 100-330 100-332 100-334 100-336 100-338 100-340 100-342 100-344 100-346 100-348 100-350 100-352 100-354 100-356 100-358 100-360 100-362 100-364 100-366 100-368 100-370 100-372 100-374 100-376 100-378 100-380 100-382 100-384 100-386 100-388 100-390 100-392 100-394 100-396 100-398 100-400 100-402 100-404 100-406 100-408 100-410 100-412 100-414 100-416 100-418 100-420 100-422 100-424 100-426 100-428 100-430 100-432 100-434 100-436 100-438 100-440 100-442 100-444 100-446 100-448 100-450 100-452 100-454 100-456 100-458 100-460 100-462 100-464 100-466 100-468 100-470 100-472 100-474 100-476 100-478 100-480 100-482 100-484 100-486 100-488 100-490 100-492 100-494 100-496 100-498 100-500 100-502 100-504 100-506 100-508 100-510 100-512 100-514 100-516 100-518 100-520 100-522 100-524 100-526 100-528 100-530 100-532 100-534 100-536 100-538 100-540 100-542 100-544 100-546 100-548 100-550 100-552 100-554 100-556 100-558 100-560 100-562 100-564 100-566 100-568 100-570 100-572 100-574 100-576 100-578 100-580 100-582 100-584 100-586 100-588 100-590 100-592 100-594 100-596 100-598 100-600 100-602 100-604 100-606 100-608 100-610 100-612 100-614 100-616 100-618 100-620 100-622 100-624 100-626 100-628 100-630 100-632 100-634 100-636 100-638 100-640 100-642 100-644 100-646 100-648 100-650 100-652 100-654 100-656 100-658 100-660 100-662 100-664 100-666 100-668 100-670 100-672 100-674 100-676 100-678 100-680 100-682 100-684 100-686 100-688 100-690 100-692 100-694 100-696 100-698 100-700 100-702 100-704 100-706 100-708 100-710 100-712 100-714 100-716 100-718 100-720 100-722 100-724 100-726 100-728 100-730 100-732 100-734 100-736 100-738 100-740 100-742 100-744 100-746 100-748 100-750 100-752 100-754 100-756 100-758 100-760 100-762 100-764 100-766 100-768 100-770 100-772 100-774 100-776 100-778 100-780 100-782 100-784 100-786 100-788 100-790 100-792 100-794 100-796 100-798 100-800 100-802 100-804 100-806 100-808 100-810 100-812 100-814 100-816 100-818 100-820 100-822 100-824 100-826 100-828 100-830 100-832 100-834 100-836 100-838 100-840 100-842 100-844 100-846 100-848 100-850 100-852 100-854 100-856 100-858 100-860 100-862 100-864 100-866 100-868 100-870 100-872 100-874 100-876 100-878 100-880 100-882 100-884 100-886 100-888 100-890 100-892 100-894 100-896 100-898 100-900 100-902 100-904 100-906 100-908 100-910 100-912 100-914 100-916 100-918 100-920 100-922 100-924 100-926 100-928 100-930 100-932 100-934 100-936 100-938 100-940 100-942 100-944 100-946 100-948 100-950 100-952 100-954 100-956 100-958 100-960 100-962 100-964 100-966 100-968 100-970 100-972 100-974 100-976 100-978 100-980 100-982 100-984 100-986 100-988 100-990 100-992 100-994 100-996 100-998 100-1000</u>	13. ODOR			
14. SIZE & COMPOSITION ANALYSIS									
a.	<u>&gt; 4</u>	(mm) (%)							
b.	<u>.4</u>	<u>to .2</u>	<u>mm (%)</u>						
c.	<u>.2</u>	<u>to .1</u>	<u>mm (%)</u>	trace	trace				
d.	<u>.1</u>	<u>to .500</u>	<u>mm (%)</u>	trace	trace				
e.	<u>.500</u>	<u>to .250</u>	<u>mm (%)</u>	trace	trace				
f.	<u>.250</u>	<u>to .125</u>	<u>mm (%)</u>	trace	trace				
g.	<u>.125</u>	<u>to .062</u>	<u>mm (%)</u>	trace	trace				
h.	<u>.062</u>	<u>to .031</u>	<u>mm (%)</u>	trace	trace				
i.	<u>.031</u>	<u>to .016</u>	<u>mm (%)</u>	trace	trace				
j.	<u>.016</u>	<u>to .008</u>	<u>mm (%)</u>	trace	trace				
k.	<u>.008</u>	<u>to .004</u>	<u>mm (%)</u>	trace	trace				
l.	<u>.004</u>	<u>to .002</u>	<u>mm (%)</u>	trace	trace				
m.	<u>.002</u>	<u>to .001</u>	<u>mm (%)</u>	trace	trace				
n.	<u>&lt; .001</u>	<u>mm (%)</u>		trace	trace				
o. Median Diameter (mm)									
p. Sorting Coefficient									
q. Skewness									
r. Standard Deviation (mm)									
s. Sediment Type									
t. Dominant Minerals (S)									
u. Secondary Minerals (S)									
v. Calcium Carbonate (S)	<u>8</u>	<u>8</u>	<u>10</u>	<u>9</u>	<u>7</u>				
w. Organic Carbon (S)	<u>0.46</u>								
15. REMARKS									
					LAYER OF VOLCANIC GLASS SHARDS AT 270 TO 274 CM. IN OTHERWISE UNIFORM RED CLAY				

**CORE ANALYSIS SUMMARY SHEET**  
**SEDIMENT SIZE AND COMPOSITION**

ANALYZED BY STEWART

NAVOCANO-EXP-3167/18-A (Rev. 1-63)

1. CRUISE NO.	D-5	4. SAMPLE NO.	B5 31 (CONT.)	7. TYPE CORER	ENING
2. LATITUDE	31° 02' N	5. DATE TAKEN (DAY, MO., YR.)	8. CORE LENGTH (cm)	283.5	
3. LONGITUDE	121° 34' W	6. WATER DEPTH (m)	9. CORER PENETRATION (cm)		
10. LABORATORY NUMBER	18-109	70-23225			
11. SUBSAMPLE DEPTH IN CORE (cm)	270-275	225-274-280			
12. COLOR (GSA ROCK COLOR CHART)	014/22	014/22			
13. ODOR	F	Lab Determination			
14. SIZE & COMPOSITION ANALYSIS					
a.	> 4	(mm) (%)			
b.	.4	to 2 mm (%)			
c.	.2	to 1 mm (%)			
d.	.1	to .500 mm (%)			
e.	.500	to .250 mm (%)			
f.	.250	to .125 mm (%)	Trace		
g.	.125	to .062 mm (%)	Trace		
h.	.062	to .031 mm (%)	2.0		
i.	.031	to .016 mm (%)	40		
j.	.016	to .008 mm (%)	10		
k.	.008	to .004 mm (%)	27		
l.	.004	to .002 mm (%)	16		
m.	.002	to .001 mm (%)	27		
n.	<.001	mm (%)	6		
o. Median Diameter (mm)	12	5	26		
p. Sorting Coefficient	0108	0282	.0021		
q. Skewness	297	1.98	3.16		
r. Standard Deviation (mm)	0.51	0.93	1.11		
s. Sediment Type	Cherts, Sandstone, Shaly				
t. Dominant Minerals					
u. Secondary Minerals					
v. Calcium Carbonate (%)	7	2	8		
w. Organic Carbon (%)					
15. REMARKS					

**CORE ANALYSIS SUMMARY SHEET  
SEDIMENT SIZE AND COMPOSITION**

STEWART

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NOVOCE AND DIP: 31/03/2018-A (Rev. 1:63)

**CORE ANALYSIS SUMMARY SHEET**  
**SEDIMENT SIZE AND COMPOSITION**

ANALYZED BY STEWART

NAVOCANO-EXP-316/78-A (Rev. 1-63)

1. CRUISE NO.	2-5	4. SAMPLE NO.	BS-32 (CONY)	7. TYPE CORER	HULL ENBERG
2. LATITUDE	31° 57' N	5. DATE TAKEN (DAY, MO., YR.)	8 DEC 62	8. CORE LENGTH (cm)	276 CM
3. LONGITUDE	121° 48' W	6. WATER DEPTH (m)	30.30	9. CORER PENETRATION (cm)	
10. LABORATORY NUMBER	192-123	11. SUBSAMPLE DEPTH IN CORE (cm)	220-227	12. COLOR (GSA ROCK COLOR CHART)	10YR 5/2 DRY 3/2
12. COLOR (GSA ROCK COLOR CHART)	10YR 5/2 DRY 3/2	13. FIELD LAB DETERMINATION	2W 1/2	14. ODOR	WEAK
14. SIZE & COMPOSITION ANALYSIS					
a.	4	mm (%)			
b.	.4	to 2 mm (%)			
c.	.2	to 1 mm (%)			
d.	.1	to .500 mm (%)			
e.	.500	to .250 mm (%)			
f.	.250	to .125 mm (%)			
g.	.125	to .062 mm (%)			
h.	.062	to .031 mm (%)			
i.	.031	to .016 mm (%)	9	10	15, 1/2, 1/2
j.	.016	to .008 mm (%)			
k.	.008	to .004 mm (%)	25	26	24, 21, 26
l.	.004	to .002 mm (%)			
m.	.002	to .001 mm (%)	31	39	14, 32
n.	<.001	mm (%)	35	25	13, 30
o. Median Diameter (mm)	.0018		.0025	.0025	.0043
p. Sorting Coefficient	2.83		2.51	3.35	2.94
q. Skewness	1.09		1.01	1.15	0.42, 0.96
r. Standard Deviation (mm)					
s. Sediment Type	Clayey Silt				
t. Dominant Minerals (%)					
u. Secondary Minerals (%)					
v. Calcium Carbonate (%)	8				
w. Organic Carbon (%)	7				
15. REMARKS					

**CORE ANALYSIS SUMMARY SHEET**  
**SEDIMENT SIZE AND COMPOSITION**

ANALYST # NCEI - Pt. Hueneme

DATE 9 May 1963

NAVOCANO-BR-31676-A Rev. 1-63

1. CRUISE NO. Project D-5	4. SAMPLE NO. BS-33	5. DATE TAKEN (DAY, MO., YR.) 9/12/62	6. CORE LENGTH (cm) 290	7. TYPE CORE Kullenberg, gravity
2. LATITUDE 31° 27.8'	"	"	"	8. CORE PENETRATION (cm) Not recorded
3. LONGITUDE 121° 48.8'	"	"	"	9. CORE PENETRATION (cm) Not recorded
10. LABORATORY NUMBER	BS-33-1	BS-33-2	BS-33-3	BS-33-4
11. SUBSAMPLE DEPTH IN CORE (cm)	0.0-7.6	15.2-22.9	30.5-38.1	45.7-53.3
12. COLOR (GSA ROCK COLOR CHART) FIELD <input checked="" type="checkbox"/> LAB DETERMINATION	DYR2/Z 1	10YR2/Z 1	10YR2/Z 1	10YR5/Z 1
13. ODOR	none	none	none	none
14. SIZE & COMPOSITION ANALYSIS				
a. > 4 mm (S)	0	0	0	0
b. 4 to 2 mm (S)	0	0	0	0
c. 2 to 1 mm (S)	0	0	0	0
d. 1 to .500 mm (S)	0	0	0	0
e. .500 to .250 mm (S)	0.1	0.1	0.1	0.1
f. .250 to .125 mm (S)	0.1	0.1	0.1	0.1
g. .125 to .062 mm (S)	0.4	0.1	0.2	0.1
h. .062 to .031 mm (S)	1.4	2.7	1.6	1.2
i. .031 to .016 mm (S)	7.0	7.0	12.0	6.5
j. .016 to .008 mm (S)	7.0	8.0	8.0	7.0
k. .008 to .004 mm (S)	13.0	12.0	11.0	13.0
l. .004 to .002 mm (S)	12.0	12.0	11.0	12.0
m. .002 to .001 mm (S)	13.0	12.0	9.0	11.0
n. <.001 mm (S)	46.0	46.0	47.0	49.0
o. Median Diameter (mm)	.0014	.0014	.0015	.0011
p. Sorting Coefficient	-	-	-	-
q. Skewness	-	-	-	-
r. Standard Deviation (mm)	-	-	-	-
s. Sediment Type	Silty clay	Silty clay	Clay	Silty clay
t. Dominant Minerals (S)	Calcite 40% Quartz 25% Muscovite 5%	Limonite 80% Calcite 15% Quartz 5%	Limonite 70% Quartz 25% Calcite 5%	Limonite 70% Calcite 30% Quartz 15%
Plus 32.5 Fraction	Muscovite		Calcite 15% Quartz 5%	Calcite 10% Quartz 5%
u. Secondary Minerals (S)			Quartz 5%	Quartz 10% Muscovite 10%
v. Calcium Carbonate (%)	7.50	7.77	7.66	7.49
w. Organic Carbon (%)	-	-	-	-
15. REMARKS	CaCO <sub>3</sub> (%) 0.78	0.77	0.75	0.74
	MgCO <sub>3</sub> (%) 6.72	7.00	6.91	6.75
				0.65
				0.72
				0.73
				6.36
				6.42

**CORE ANALYSIS SUMMARY SHEET**  
**SEDIMENT SIZE AND COMPOSITION**

ANALYSIS BY NCEL - Pt. Hueneberg

DATE 9 May 1963

MANOGLANDS-BP-3477/6A Form 1-631

1. CRUISE NO. Project D-5		4. SAMPLE NO. BS-33 continued		7. TYPE CORE Kullenberg, gravity	
2. LATITUDE 31° 27'.8 "	3. LONGITUDE 121° 48'.8 "	5. DATE TAKEN (DAY, MO., YR.) 9/12/62	6. WATER DEPTH (m) 4023	8. CORE LENGTH (cm) 290	9. CORE PENETRATION (cm) Not recorded
10. LABORATORY NUMBER	BS-33-14	BS-33-15	BS-33-16	BS-33-17	
11. SUBSAMPLE DEPTH IN CORE (cm)	198-206	213-221	229-236	244-251	259-267
12. COLOR (GSA ROCK COLOR CHART) [E] FIELD [ ] LAB DETERMINATION	10YR 4/2	10YR 5/4	10YR 5/4	10YR 5/4	10YR 5/4
13. ODOR	none	none	none	none	none
14. SIZE & COMPOSITION ANALYSIS					
a.	> 4 mm (S)	-	0	-	0
b. .4	.to .2 mm (S)	-	0	-	0
c. .2	.to .1 mm (S)	-	0	-	0
d. .1	.to .050 mm (S)	-	0.1	-	0
e. .050	.to .0250 mm (S)	-	0.1	-	0.1
f. .0250	.to .0125 mm (S)	-	0.1	-	0.1
g. .125	.to .062 mm (S)	-	0.1	-	0.2
h. .062	.to .031 mm (S)	-	0.6	-	2.1
i. .031	.to .016 mm (S)	-	9.0	-	11.5
j. .016	.to .008 mm (S)	-	8.0	-	7.0
k. .008	.to .004 mm (S)	-	15.0	-	12.0
l. .004	.to .002 mm (S)	-	11.0	-	12.0
m. .002	.to .001 mm (S)	-	9.0	-	12.0
n. <.001	mm (S)	-	47.0	-	43.0
o. Median Diameter (mm)		.0014	-	.0016	-
p. Sorting Coefficient	-	-	-	-	-
q. Skewness	-	-	-	-	-
r. Standard Deviation (mm)	-	-	-	-	-
s. Sediment Type	Silty clay	Silty clay	Silty clay	Silty clay	Silty clay
t. Dominant Minerals (S)	Limonite Calcite	60% 20%	Limonite Calcite	80% 10%	
Plus 325 Fraction	Quartz	10%	Quartz	10%	
u. Secondary Minerals (S)	Muscovite	10%	Muscovite	10%	
v. Calcium Carbonate (%)	-	7.47	-	7.25	-
w. Organic Carbon (%)	-	-	-	-	-
x. REMARKS	CaCO <sub>3</sub> (%)	0.81	0.69		
	MgCO <sub>3</sub> (%)	6.66	6.56		

**CORE ANALYSIS SUMMARY SHEET**  
**SEDIMENT SIZE AND COMPOSITION**

ANALYZED BY STEWART

NAVOCANO-EP-316718-A (Rev. 1-63)

1. CRUISE NO. D-5		4. SAMPLE NO. BS-34		7. TYPE CORER KUllenBERG	
2. LATITUDE 31°39.7' N	"	5. DATE TAKEN (DAY, MO., YR.) 9-12-62	"	8. CORE LENGTH (cm)	10' G"
3. LONGITUDE 121°49.1' W	"	6. WATER DEPTH (m)	3.996	9. CORE PENETRATION (cm)	
10. LABORATORY NUMBER	102-130	102-131	102-132	102-133	102-134
11. SUBSAMPLE DEPTH IN CORE (cm)	0-4	//-8	38-45	64-71	80-86
12. COLOR (GSA ROCK COLOR CHART)	10YR 3/2	10YR 3/2	10YR 5/2	10YR 5/2	10YR 5/2
F FIELD LAB DETERMINATION	F	L	LW 1/2	LW 1/2	LW 1/2
13. ODOR					
14. SIZE & COMPOSITION ANALYSIS					
a. > 4 mm (%)					
b. .4 to 2 mm (%)					
c. .2 to 1 mm (%)					
d. .1 to .500 mm (%)	TRACE				
e. .500 to .250 mm (%)	TRACE				
f. .250 to .125 mm (%)	TRACE				
g. .125 to .062 mm (%)	TRACE				
h. .062 to .031 mm (%)					
i. .031 to .016 mm (%)	12	11	9	9	9
j. .016 to .008 mm (%)					
k. .008 to .004 mm (%)	29	28	28	24	23
l. .004 to .002 mm (%)					
m. .002 to .001 mm (%)	28	30	29	32	30
n. <.001 mm (%)	31	31	33	35	34
o. Median Diameter (mm)	.0026	.0024	.0023	.0019	.0019
p. Sorting Coefficient	3.10	2.96	3.14	2.80	3.02
q. Skewness	0.91	0.97	0.91	1.07	1.09
r. Standard Deviation (mm)					
s. Sediment Type	Silty Clay	Silty Clay	Silty Clay	Silty Clay	Silty Clay
t. Dominant Minerals (%)					
u. Secondary Minerals (%)					
v. Calcium Carbonate (%)	15	14	12	9	8
w. Organic Carbon (%)	0.85				
15. REMARKS	UNIFORM RED CLAY				

**CORE ANALYSIS SUMMARY SHEET**  
**SEDIMENT SIZE AND COMPOSITION**

ANALYZED BY S STEWART

NAVOCEANO-DR-31G/1B-A (Rev. 1-63)

1. CRUISE NO.	D - 5	4. SAMPLE NO.	B S - 34	7. TYPE CORER	KULLENBERG
2. LATITUDE	31° 39.7' N	5. DATE TAKEN (DAY, MO., YR.)	3 - 12 - 62	8. CORE LENGTH (cm)	10' 6"
3. LONGITUDE	121° 49.1' W	6. WATER DEPTH (m)	39.96	9. CORE PENETRATION (cm)	
10. LABORATORY NUMBER	[82-143] 182-144	182-145	182-146		
11. SUBSAMPLE DEPTH IN CORE (cm)	260 - 266	274 - 278	288 - 295	302 - 306	
12. COLOR (GSA ROCK COLOR CHART)	10YR 5/2	10YR 5/2	10YR 6/2	10YR 6/2	
F FIELD <input checked="" type="checkbox"/> LAB DETERMINATION	W 4/2	W 4/2	W 4/2	W 4/2	
13. ODOR					
14. SIZE & COMPOSITION ANALYSIS					
a. $\rightarrow$ 4	(mm) (\$)				
b. 4 to 2	mm (\$)				
c. 2 to 1	mm (\$)				
d. 1 to .500	mm (\$)				
e. .500 to .250	mm (\$)				
f. .250 to .125	mm (\$)				
g. .125 to .062	mm (\$)				
h. .062 to .031	mm (\$)				
i. .031 to .016	mm (\$)	8	11	9	13
j. .016 to .008	mm (\$)				
k. .008 to .004	mm (\$)	18	26	23	28
l. .004 to .002	mm (\$)				
m. .002 to .001	mm (\$)	33	33	29	29
n. < .001	mm (\$)	41	31	39	28
o. Median Diameter (mm)	.0014	.0023	.0016	.0030	
p. Sorting Coefficient	2.90	3.07	3.00	3.16	
q. Skewness	1.07	0.87	1.27	0.90	
r. Standard Deviation (mm)					
s. Sediment Type	Silty Clay	Silty Clay	Silty Clay	Silty Clay	
t. Dominant Minerals	(\$)				
u. Secondary Minerals	(\$)				
v. Calcium Carbonate	(\$)	/2	//	19	16
w. Organic Carbon	(\$)				
15. REMARKS					

**CORE ANALYSIS SUMMARY SHEET**  
**SEDIMENT SIZE AND COMPOSITION**

NAVOCEANO-EXP-3162/118-A (Rev. 1-63)

2

ANALYZED BY 31-EWHT

DATE

**CORE ANALYSIS SUMMARY SHEET**  
**SEDIMENT SIZE AND COMPOSITION**

ANALYZED BY S. STEWART

NAVOCANO- DP-3102/18-A (Rev. 1-63)

1. CRUISE NO.		2. LATITUDE		3. LONGITUDE		4. SAMPLE NO.		5. DATE TAKEN (DAY, MO., YR.)		6. WATER DEPTH (m)		7. TYPE CORER		8. CORE LENGTH (cm)		9. CORER PENETRATION (cm)																																															
1. CRUISE NO.	D - 5	2. LATITUDE	31° 40.1' N	3. LONGITUDE	20° 20.2' W	4. SAMPLE NO.	B5 - 35 (cont.)	5. DATE TAKEN (DAY, MO., YR.)	9 - 12 - 62	6. WATER DEPTH (m)	37.16	7. TYPE CORER	KULLENBERG	8. CORE LENGTH (cm)	9' 3"	9. CORER PENETRATION (cm)																																															
10. LABORATORY NUMBER	182-159	11. SUBSAMPLE DEPTH IN CORE (cm)	182-160	12. COLOR (GSA ROCK COLOR CHART)	250-247	13. ODOR		14. SIZE & COMPOSITION ANALYSIS		15. REMARKS																																																					
a. > 4 mm (%)		b. 4 to 2 mm (%)		c. 2 to 1 mm (%)		d. 1 to .500 mm (%)		e. .500 to .250 mm (%)		f. .250 to .125 mm (%)		g. .125 to .062 mm (%)		h. .062 to .031 mm (%)		i. .031 to .016 mm (%)		j. .016 to .008 mm (%)		k. .008 to .004 mm (%)		l. .004 to .002 mm (%)		m. .002 to .001 mm (%)		n. < .001 mm (%)		o. Median Diameter (mm)	.0022	.0021	.0027	p. Sorting Coefficient	2.89	2.95	3.14	q. Skewness	1.11	0.97	1.10	r. Standard Deviation (mm)				s. Sediment Type	Silty Clayey Silt/Clay			t. Dominant Minerals (%)				u. Secondary Minerals (%)				v. Calcium Carbonate (%)	8	7	7	w. Organic Carbon (%)			

**CORE ANALYSIS SUMMARY SHEET**  
**SEDIMENT SIZE AND COMPOSITION**

ANALYZED BY STEWART

NAVOCEANO-EXP-3167/18-A (Rev. 1-63)

1. CRUISE NO.	D - 5	4. SAMPLE NO.	B5 - 36	7. TYPE CORER	KUllenBerg
2. LATITUDE	34° 52' 3" N	"	"	5. DATE TAKEN (DAY, MO., YR.)	10 - 12 - 63
3. LONGITUDE	122° 59' W	"	"	6. WATER DEPTH (m)	34.82
10. LABORATORY NUMBER	182-163	182-164	182-165	182-166	182-167
11. SUBSAMPLE DEPTH IN CORE (cm)	0-6	16-22	35-42	52-58	67-74
12. COLOR (GSA ROCK COLOR CHART) E FIELD <input checked="" type="checkbox"/> LAB DETERMINATION	5GY 1/1 L	5Y 1/1 Lw R 3/4	5Y 1/1 WYR 3/4	5Y 1/1 WYR 3/4	5GY 1/1 WYR 3/4
13. ODOR					
14. SIZE & COMPOSITION ANALYSIS					
a.	7 4	(mm) (%)			
b. 4 to 2	mm (%)	TRACE			
c. 2 to 1	mm (%)	"			
d. 1 to .500	mm (%)	"			
e. .500 to .250	mm (%)	"			
f. .250 to .125	mm (%)	"			
g. .125 to .062	mm (%)	TRACE			
h. .062 to .031	mm (%)				
i. .031 to .016	mm (%)	11	7	15	16
j. .016 to .008	mm (%)				
k. .008 to .004	mm (%)	2.5	2.8	2.7	2.7
l. .004 to .002	mm (%)				
m. .002 to .001	mm (%)	3.3	3.6	3.3	3.1
n. <.001	mm (%)	2.9	2.8	2.5	2.3
o. Median Diameter (mm)	.0024	.0023	.0029	.0032	.0030
p. Sorting Coefficient	2.98	2.54	2.93	3.09	3.08
q. Skewness	0.99	0.99	1.02	1.13	1.06
r. Standard Deviation (mm)					
s. Sediment Type	Silty Clay with Clay Silty Clay with Clay Silty Clay with Clay Silty Clay with Clay				
t. Dominant Minerals (%)					
u. Secondary Minerals (%)					
v. Calcium Carbonate (%)	9	12	7	6	9
w. Organic Carbon (%)	1.62				
x. REMARKS					
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## CORE ANALYSIS SUMMARY SHEET

### SEDIMENT SIZE AND COMPOSITION

ANALYZED BY SIEWAR

NAVYOCF:ANNC-FMP:3167018-A (Rev. 1:63)

## SEISMIC CYCLOGRAPHY LABORATORY LOG SHEET

182

MADE BY:

PROJ. NO. D-5

DATE LOGGED IN:

SAMPLE NO: BS-11

SECTION NO: 1-2

SAMPLER TYPE: EWING

LATITUDE:  $34^{\circ} 59.5' N$ 

LOCATION: E. PAC

WATER DEPTH: (fms) 2140 (m) 3913

LONGITUDE:  $122^{\circ} 30' W$ 

DATE (d-m-y) 23 NOV 62

CORE LENGTH: (cm) 10'

262 cm

CORE PENETRATION (cm)

REMARKS: (odor, shells, bedding, structure, etc.)

This core was partially disturbed during collection. core was cut into two sect. + the top 10-20 cm of each section was desiccated

Although there is no doubt as far as Eng. data some portions of this core appear to be not disturbed

from 2-87.5 cm. core appears to have been fractured during collection + the fissures have rusted to a bright red, probably the rust is from the Ewing barrel.

due to the oxidizing action the color is quite mixed + is not very significant at all.

CORE SKETCH  
(depth of core)

desiccated

-? -? -?

Fissures w/ coating of rust

? ?

100

COLOR

LAB.  
NOS.CHUC.  
NOS.SEDIMENT  
TYPE

(e.g. silt)

Grayish  
olive  
10y 9/2182-1  
0-5predominantly  
CLAY w/ some  
SILT + SAND182-2  
32-39

## SEISMIC CYCLOGRAPHY-LABORATORY LOG SHEET

LOGGED BY:

PROJ. NO.

DATE LOGGED IN:

SAMPLE NO.:

SECTION NO.:

SAMPLER TYPE:

LATITUDE:

LOCATION:

WATER DEPTH: (fms)

(m)

LONGITUDE:

CORE LENGTH: (cm)

DEPTH (d-m-y)

CORE PENETRATION (cm)

REMARKS (odor, shells, bedding, structure, etc.)

CORE SKETCH  
(depth of core)

COLOR

LAB.  
NOS.CRUC.  
NOS.SEDIMENT  
TYPE  
(visual)

100

110

120

Silt LAYER  
(yellow color MAY be  
rust or LIMONITE?)

130

top of section 2  
133.5 CM.

140

desiccated?

150

160

? ?

170

180

190

200

182-3

101-108

do

182-4

194-201

## OCEANOGRAPHY-LABORATORY LOG SHEET

BY: PROJ. NO. DATE LOGGED IN:  
 SAMPLE NO. SECTION NO. SAMPLER TYPE:  
 LATITUDE: LOCATION: WATER DEPTH: (fms) (m)  
 LONGITUDE: CORE LENGTH: (cm)  
 DATE (d-m-y) CORE PENETRATION (cm)

REMARKS: (odor, shells, bedding, structure, etc.)	CORE SKETCH (depth of core)	COLOR	LAB. NOS.	CRUC. NOS.	SEDIMENT TYPE (visual)
	200				do
horizontal sand & silt layering	210		182-5	211-221	
	220				
	230				
	240		182-6	233-240	
	250				
	260		182-7	253-262	
	Bottom 262.0 cm.		✓	✓	

## OCEANOGRAPHY LABORATORY LOG SHEET

LOG BY:

PROJ. NO. D-5

SAMPLE NO. BS-12

SECTION NO. -

LATITUDE:  $30^{\circ} 36.3' N$ LONGITUDE:  $121^{\circ} 36.1' W$ 

DATE: 1 Dec 62

TIME: 10:00 AM

WEATHER: Partly cloudy

WATER TEMPERATURE: 14°C

WATER PRESSURE: 128.0 atm

CORE LENGTH: 44 cm

CORE PENETRATION: 128.0 cm

NOTES: (odor, shells, bedding, structure, etc.)

(depth of core)

Mn nodules 3.8 cm

at top of core

-

10

Mn nodules 2.5 cm

Dense

-

20

Zinc Diabase nodule

-

-

1/2 x 2 cm Mn Nodule

-

30

-

-

40

-

-

50

-

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60

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70

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1090

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1100

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1110

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1120

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1130

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1140

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## OCEANOGRAPHY-LABORATORY LOG SHEET

BY:

PROJ. NO.

DATE LOGGED IN:

SAMPLE NO.:

SECTION NO.:

SAMPLER TYPE:

LATITUDE:

LOCATION:

WATER DEPTH: (fms)

(m)

LONGITUDE:

DATE:

CORE LENGTH: (cm)

REMARKS: odor, sheets

CORE SKETCH

CORE PENETRATION (cm)

bedding, structure, etc. (depth of  
core)

COLOR

LAB.  
NOS.CHUC.  
NOS.SEDIMENT  
TYPE

(small)

100

' .

10X R 5/4 182-13

13

silty clay.

APPEAR to be Mn

' .

99.5-100.5

decomposed or just

' .

FORMING.

' .

Mn Nodule 1.5x3m

110

→ \*

120

' .

111

' .

112

' .

113

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114

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115

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116

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266

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267

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268

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269

## OCEANOGRAPHY LABORATORY LOG SHEET

147

MAKED BY: STILES PROJ. NO. D-5

SAMPLE NO: BS-14

SECTION NO: -

DATE LOGGED IN: MAY 7, 1963

SAMPLER TYPE: Kullenberg.

WATER DEPTH: (fms) (m) 4042

CORE LENGTH: (cm) 173.5

CORE PENETRATION (cm)

LATITUDE:  $30^{\circ} 50.5' N$ 

LOCATION: E. PAC.

LONGITUDE:  $121^{\circ} 25' W$ 

DATE (d-m-y) 2 Dec. 62

REMARKS: (color, shells,

bedding, structure, etc.)

CORE SKETCH

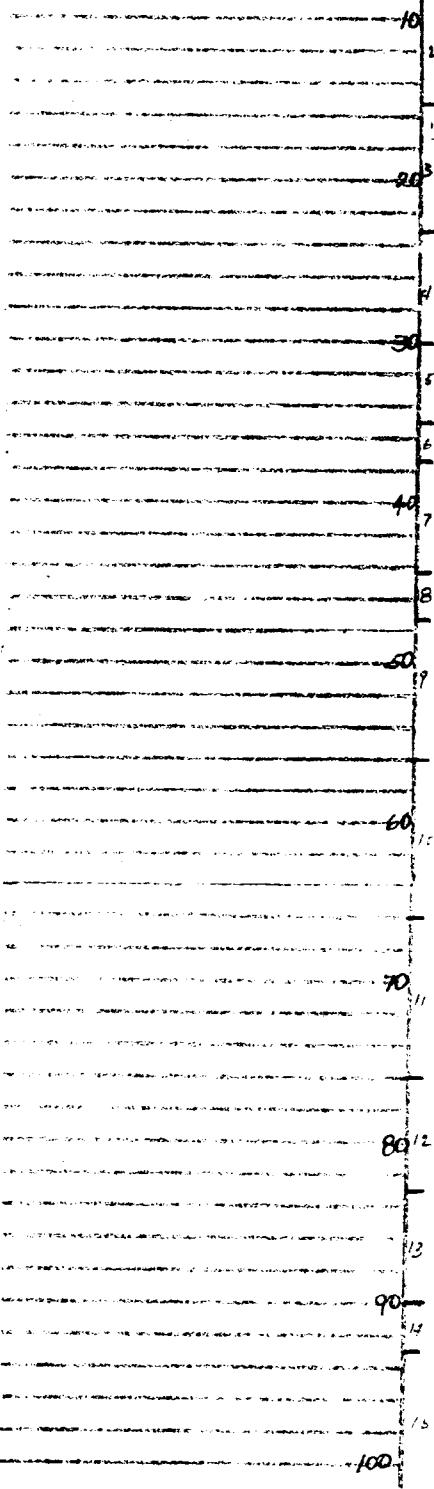
(depth of  
core)

COLOR

LAB.  
NOS.CRUC.  
NOS.SEDIMENT  
TYPE

(qual.)

No water on top  
sample is moist but  
cracked down center  
0-8.5 cm.



Moderate  
yellowish  
brown  
10 YR 5/4

182-15

0-8.5

182-16

0.5-15.5

182-17

37.5-44.5

182-18

76-83

## OCEANOGRAPHY LABORATORY LOG SHEET

118

LOG BY:

PROJ. NO.:

DATE LOGGED IN:

SAMPLE NO.:

SECTION NO.:

SAMPLER TYPE:

LATITUDE:

LOCATION:

WATER DEPTH: (fms)

(m)

LONGITUDE:

CORE LENGTH: (cm)

DATE (d-m-y):

CORE PENETRATION (cm)

Description: odor shells  
bedding, structure, etc.

100

COAT SKETCH  
(Length of  
core)

COLOR

LAB.  
NOS.CRUC.  
NOS.SEDIMENT  
TYPE

(e.g. sand)

10 yr. s/f

silty clay

110

116

120

127

130

135

140

145

150

160

170

170

182-19

119-121

182-20

165-173.5

Bottom  
173.5 CM

## OCEANOGRAPHY LABORATORY LOG SHEET

LOG BY: Stiles PROJ. NO. D-5

SAMPLE NO: BS-15

SECTION NO:

LATITUDE:  $31^{\circ} 02' N$ 

LOCATION: E. PAC.

LONGITUDE:  $121^{\circ} 22.7' W$ 

DATE: 2 Dec 62

DATE LOGGED IN: 8 MAY 63

SAMPLER TYPE: Kullenberg

WATER DEPTH: (fms)

(m) 3987

CORE LENGTH: (cm)

CORE PENETRATION (cm)

NOTES: Odor, shells

bedding, structures, etc.

CORE LENGTH

DEPTH OF

0 CORE

COLOR

IAB.

NOS.

CRUC.

NOS.

SEDIMENT

TYPE

Dark yellowish  
Brown  
10 YR 4/2

182-21

6-5

10-17

SILTY CLAY TO CHY  
HOMOGENEOUS

3

4

182-22

35-42

5

6

7

8

9

10

11

12

13

14

15

16

17

18

Worm holes?

60

80

SAND GRAIN SIZE  
ABUND PERIPH/

100

Cont'd.





OCEANOGRAPHY-LABORATORY LOG SHEET

1

LOG. BY: PROJ. NO. DATE LOGGED IN:  
SAMPLE NO: SECTION NO. SAMPLER TYPE:  
LATITUDE: LOCATION: WATER DEPTH: (fms) (m)  
LONGITUDE: DEPT. LENGTH:

**OCEANOGRAPHY - LABORATORY LOG SHEET**

LOC BY: PHOJ. NO. D-5 DATE LOGGED IN:  
SAMPLE NO: 155-20 SECTION NO: 1-2 SAMPLER TYPE: Kullenberg  
LATITUDE: 31° 20' N WATER DEPTH: (fms) (m) 3822  
LONGITUDE: 121° 01' W CORE LENGTH: (cm) 10'  
DATE: d-m-y 4 Dec. 62 CORE PENETRATION (cm)

REMARKS Sect #1	CORE SKETCH (depth of core)	COLOR	CORE PENETRATION (cm)		SEDIMENT TYPE (usual)
			LAB. NOS.	CRUC. NOS.	
Net stratified.	0	Dusky Yellowish Brown	182-36		Clay, very little if any, silt to be expected,
Under binocular microscope some 10 flakcs w/ a micaceous luster can be seen.	10	10 YR 2/2	(0-6)		
Clay has a somewhat mealy texture.	20				
A few 0.05 mm animal? borings.	30				
A few diatoms present.	40				
	50				
	60				
	70				
	80				
	90				
	100				

## OCEANOGRAPHY-LABORATORY LOG SHEET

1211

LOG BY:	PROJ. NO.	DATE LOGGED IN:
SAMPLE NO.:	SECTION NO.:	SAMPLER TYPE:
LATITUDE:	LOCATION:	WATER DEPTH: (fms) (m)
LONGITUDE:		CORE LENGTH: (cm)
DATE (d-m-y)		CORE PENETRATION (cm)

REMARKS (odor, shells, bedding, structure, etc.)	CORE SKETCH (depth of core)	COLOR	LAB. NOS.	CRUC. NOS.	SEDIMENT TYPE
	100	10YR 6/9 mottled with	182-043		CLAY
	120			182-044	
	140		120-126		MUD
	160			125-135	less
	180				mottled
	200				Mostly
		10 YR 6/9	182-045		
			135-141		
		10YR 4/2			
		10YR 9/7			
		10YR 6/4			
			182-046		
			163-170		
		10YR 4/2			
		10YR 9/2			
		10YR 9/2			
		10YR 9/4			

**OCEANOGRAPHY-LABORATORY LOG SHEET**

**LOG BY:**

PROJ. NO.

**DATE LOGGED IN:**

SAMPLE NO:

SECTION NO.:

**SAMPLER TYPE:**

## LATTITUDE:

**LEGAL NOT**  
**LOCATION:**

WATER DEPTH: (fms)

## LONGITUDE.

卷之三

CORE LENGTH? (cm)

DATE 'd-m-

### CORE PENETRATION

BRITISH GEM  
BRITAIN is (ed)

## CONE PENETRATION (cm)

ROCK/TEXTURE (odor, shells, bedding, structure, etc.)	CORE SKETCH (depth of core)	COLOR	LAB. NOS.	CRUC. NOS.	SEDIMENT TYPE
					(- small)
	200		182-097 200-207		CLAY
	210				
	220				
	230				
	240				
	250				
	260				
	270				
	280				
	290				

## OCEANOGRAPHY-LABORATORY LOG SHEET

LOG BY:

PROJ. NO. D-5

DATE LOGGED IN:

SAMPLE NO: BS-23

SECTION NO: 1-2

SAMPLER TYPE: Kullenberg

LATITUDE: 30° 55.3' N

LOCATION: E. PAC.

WATER DEPTH: (fms)

LONGITUDE: 120° 37.9' W

DATE (d-m-y) 5 Dec 62

CORE LENGTH: (cm)

REMARKS: (odor, shells,  
bedding, structure, etc.)CORE SKETCH  
(depth of  
core)

CORE PENETRATION (cm)

-

0

182-50

0-10

10

dark yellow

20

brown

30

10YR 4/3

40

10YR 4/3

50

182-52

60

35-42

70

182-53

80

67-74

90

100

There are numerous  
streaks of 10YR 4/3  
throughout the  
10YR 5/4



## OCEANOGRAPHY-LABORATORY LOG SHEET

158

LOG BY:	PROJ. NO.	DATE LOGGED IN:
SAMPLE NO.:	SECTION NO.:	SAMPLER TYPE:
LATITUDE:	LOCATION:	WATER DEPTH: (fms) (m)
LONGITUDE:		CORE LENGTH: (cm)
DATE (d-m-y)		CORE PENETRATION (cm)
REMARKS:		

REMARKS: (odor, shells, bedding, structure, etc.)	CORE SKETCH (depth of core)	COLOR	LAB. NOS.	CRUC. NOS.	SEDIMENT
					TYPE (e.g., silt, sand, mud, etc.)
	200	10 YR 5/4			
	210		182-567	210-217	
	220				
	230				
	240	LT. GRAY	182-572		
		N 7	238-293		(quartz pocket)
	250	10 YR 5/4	182-578		
			244-254		
	254 CM.				

OCEANOGRAPHY-LABORATORY LOG SHEET

LOG BY: PROJ. NO. D-5

SAMPLE NO: BS-24 SECTION NO: 1-2

LATITUDE:  $30^{\circ} 45.7' N$  LOCATION: E.

LONGITUDE:  $120^{\circ} 32' W$

DATE (d-m-y) 5 Dec 62

DATE LOGGED IN: 4 JUNE 63

SAMPLER TYPE: kullenberg

WATER DEPTH: (fms) (m) 376

CORE LENGTH: (cm) 8' 2" 244.0 cm.

CORE PENETRATION (cm) -

B. CRUC. SEDIMENT

REMARKS (odor, shells, structure, etc.) CORE SKETCH  
bedding, (depth of core)

**CORE SKETCH**  
**(depth of**  
**core)**

COLOR

LAB.  
NOS.

CRU  
NOS

**SEDIMENT  
TYPE**

( 4.2.1 )

Between 10-17 c. 10  
the color becomes  
variegated  
Mad. yellow b. cream  
10 X R 5/4 + 10 Y R 4/30

dark yellow  
brown 182-59  
10YR 9/2 (0-10)

1/82-60  
(10-17)

10YR 5/4  
+ 10YR 7/2

182-61  
35-42

182-62  
67-74)

White very fine  
GRAIN sample saved for mineral analysis only 90

~~To say~~ or numerals  
or algebra

## OCEANOGRAPHY-LABORATORY LOG SHEET

LOG BY: PROJ. NO. DATE LOGGED IN:  
 SAMPLE NO: SECTION NO: SAMPLER TYPE:  
 LATITUDE: LOCATION: WATER DEPTH: (fms) (m)  
 LONGITUDE: CORE LENGTH: (cm)  
 DATE (d-m-y) CORE PENETRATION (cm)

REMARKS: (odor, shells, bedding, structure, etc.)	CORE SKETCH (depth of core)	COLOR	LAB. NOS.	CRUC. NOS.	SEDIMENT TYPE
	100 -	10XR 5/4 & 10YR 9/2	182-63 (100-107)		SILTY CLAY
	110				
	120				
	130				
	140				
	150				
	160				
	170				
	180				
	190				
	200				

**OCEANOGRAPHY-LABORATORY LOG SHEET**

LOG BY:

PBOJ NO

**DATE LOGGED IN-**

SAMPLE NO.

SECTION NO.

SATE TOOKED I.  
SAMBIER TYPE.

LATITUDE.

LOCATION NO.

**SAMPLER TYPE:** WATER DEPTH: (ft.)

10

LATITUDE.  
LONGITUDE's.

## EDUCATION.

WATER DEPTH: (in)

11

LONGITUDE.  
DATE d-m-y

CORE LENGTH: cm  
CORE DIAMETER:

## OCEANOGRAPHY LABORATORY LOG SHEET

LOG BY:

PROJ. NO. D-5

DATE LOGGED IN:

SAMPLE NO: BS-27

SECTION NO:

1-2

SAMPLER TYPE: Kullenberg

LATITUDE:  $30^{\circ} 34.2' N$ 

LOCATION:

E. PAC.

WATER DEPTH: (fms)

LONGITUDE:  $121^{\circ} 37.3' W$ 

DATE: 6 Dec. 62

(m) 3940

REMARKS (color, shells, bedding, structure, etc.)

CORE SKETCH  
(depth of core)

0

COLOR

LAB.  
NOS.CRUC.  
NOS.SEDIMENT  
TYPE  
(exal)dark yellow 182-67  
brown (0-10)  
10 yr 4/3

silty clay

10-

182-68  
(10-17)Mn nodules  
 $\frac{1}{2}'' \times \frac{1}{2}''$ 

20

Mn granules 30-100  
 $\frac{1}{2}'' \times \frac{1}{2}''$ 

40

182-69  
(27-37)

50

182-70  
(37-44)

60

70

182-71  
(76-83)

80

90

100

## OCEANOGRAPHY-LABORATORY LOG SHEET

163

LOG BY:	PROJ. NO.:	DATE LOGGED IN:
SAMPLE NO.:	SECTION NO.:	SAMPLER TYPE:
LATITUDE:	LOCATION:	WATER DEPTH: (fms) (m)
LONGITUDE:		CORE LENGTH: (cm)
DATE (d-m-y):		CORE PENETRATION (cm)

REMARKS (color, shells, bedding, structure, etc.)	CORE SKETCH (depth of core)	COLOR	LAB. NOS.	CRUC. NOS.	SEDIMENT TYPE (real)
	100	10YR 9/2			SILTY CLAY
	110				
	120				
	130				
	140				
	150				
	160				
	170				
	180				
	190				
	200				



## ✓ OCEANOGRAPHY-LABORATORY LOG SHEET

LOG BY:

PROJ. NO. D-5

DATE LOGGED IN:

SAMPLE NO: BS-28

SECTION NO:

SAMPLER TYPE: Kullenberg

LATITUDE:  $30^{\circ} 46.8' N$ 

LOCATION: E PAC.

WATER DEPTH: (fms)

(m) 4133

LONGITUDE:  $121^{\circ} 95.2' W$ 

CORE LENGTH: (cm) 670"

DATE (d-m-y) 6 Dec 62

CORE PENETRATION (cm) -

REMARKS: (odor, shells, bedding, structure, etc.)

CORE SKETCH  
(depth of core)

COLOR

LAB.  
NOS.CRUC.  
NOS.SEDIMENT  
TYPE  
(anal.)

0

dark yellow 182-76  
brown (0-10)  
10yr 1/2silty CLAY  
(mostly CLAY)

10

182-77  
(10-17)

20

30

182-78  
(27-37)

40

182-79  
(37-44)

RUMICE

50

pale yellow  
brown  
10yr 6 1/2

60

greenish

70

182-80  
(65-72)

80

10yr 1/2

sect II 60-

90

10yr 1/2

100

## OCEANOGRAPHY-LABORATORY LOG SHEET

166

LUG BY: PROJ. NO. DATE LOGGED IN:  
 SAMPLE NO: SECTION NO: SAMPLER TYPE:  
 LATITUDE: LOCATION: WATER DEPTH: (fms) (m)  
 LONGITUDE: CORE LENGTH: (cm)  
 DATE (d-m-y) CORE PENETRATION (cm)

REMARKS: (odor, shells, bedding, structure, etc.)	CORE SKETCH (depth of core)	COLOR	LAB. NOS.	CRUC. NOS.	SEDIMENT TYPE (small)
	100	10 YR. 6/82-81 (100-107)			silty clay
	110				
	120				
	130				
	140				
	150				
	160				
	170				
	180				
	190				

## ✓ OCEANOGRAPHY-LABORATORY LOG SHEET

167

LOG BY:

PROJ. NO.

D-5

DATE LOGGED IN:

SAMPLE NO: BS-30

SECTION NO:

1-2

SAMPLER TYPE:

Kullenberg

LATITUDE:  $31^{\circ} 04.1' N$ 

LOCATION:

E. PAC

WATER DEPTH: (fms)

(m) 4015

LONGITUDE:  $121^{\circ} 57.8' W$ 

CORE LENGTH: (cm) 10' 7"

319.5 cm

DATE (d-m-y) 8 Dec 62

CORE PENETRATION (cm)

REMARKS: (odor, shells,  
bedding, structure, etc.)CORE SKETCH  
(depth of  
core)

COLOR

LAB.  
NOS.CRUC.  
NOS.SEDIMENT  
TYPE  
(visual)homogeneous  
CLAY -Dark yellow 182-84  
brown (0-10)  
oxyr 9/2

silt clay

182-85  
(10-17)182-86  
27-37182-87  
37-44MIXTURE  
oxyr 9/2  
←  
oxyr 5/2182-88  
(66-73)

## OCEANOGRAPHY LABORATORY LOG SHEET

168

LNG BY: PROJ. NO. DATE LOGGED IN:  
 SAMPLE NO: SECTION NO: SAMPLER TYPE:  
 LATITUDE: LOCATION: WATER DEPTH: (fms) (m)  
 LONGITUDE: CORE LENGTH: (cm)  
 DATE (d-m-y) CORE PENETRATION (cm)

REMARKS: (odor, shells, bedding, structure, etc.)	CORE SKETCH (depth of core)	COLOR	LAB. NOS.	CRUC. NOS.	SEDIMENT TYPE
	182	10YR 4/2 + 10YR 5/4	182-89 (103-110)		silty shny
	182				
	180				
	178				
	176				
Variated 10YR 2/2 + above	174	dusty yellow brown 10YR 3/2			
	172	10YR 4/2			
	170	+ 10YR 6/2	182-90 (152-158)		
	168				
Variated 10YR 4-165	166	10YR 4/2 10YR 6/2 and 10YR 2/2			
	164				
	162				
	160				
	158				
	156				
	154				
	152				
	150				
	148				
	146				
	144				
	142				
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	42				
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	38				
	36				
	34				
	32				
	30				
	28				
	26				
	24				
	22				

## OCEANOGRAPHY-LABORATORY LOG SHEET

LOG' BY:

PROJ. NO.

DATE LOGGED IN:

SAMPLE NO:

SECTION NO:

SAMPLER TYPE:

LATITUDE:

LOCATION:

WATER DEPTH: (fms)

(m)

LONGITUDE:

CORE LENGTH: (cm)

DATE (d-m-y)

CORE PENETRATION (cm)

REMARKS: (odor, shells, bedding, structure, etc.)	CORE SKETCH (depth of core)	COLOR	LAB. NOS.	CRUC. NOS.	SEDIMENT TYPE (- equal)
	200	10 YR 4/2			silty clay
	210	4			
	220	10 YR 5/6			
	230				
	240				
	250				
	260				
	270				
	280				
	290				
	300				
	310				
	320				
	330				



## OCEANOGRAPHY-LABORATORY LOG SHEET

171

LOG BY:

PROJ. NO. D-5

DATE LOGGED IN:

SAMPLE NO: BS-31

SECTION NO: 1-2

SAMPLER TYPE: Equival.

LATITUDE:  $31^{\circ} 02.6' N$ 

LOCATION: E. Pac.

WATER DEPTH: (fms)

LONGITUDE:  $121^{\circ} 39.4' W$ 

(m), 392.2

DATE (d-m-y) 8 Dec 62

CORE LENGTH: (cm) 10

283.5 cm

CORE PENETRATION (cm) -

REMARKS: (odor, shells,  
bedding, structure, etc.)CORE SKETCH  
(depth of  
core)

COLOR

LAB.  
NOS.CRUC.  
NOS.SEDIMENT  
TYPE  
(small)Homogeneous.  
A few open animal  
borings.

Dusky Yellowish

Brown

10 YR 2/2

Mottled

with

10 YR 5 1/2

between

Pale Yellowish (20-26)

brown and

Dark Yellowish

brown

182-98

(38-45)

182-99

(60-66)

182-100

(81-88)

20

40

60

80

100

## OCEANOGRAPHY-LABORATORY LOG SHEET

172

LOG BY:	PROJ. NO.	DATE LOGGED IN:
SAMPLE NO:	SECTION NO:	SAMPLER TYPE:
LATITUDE:	LOCATION:	WATER DEPTH: (fms) (m)
LONGITUDE:		CORE LENGTH: (cm)
DATE (d-m-y)		CORE PENETRATION (cm)

REMARKS: (odor, shells, bedding, structure, etc.)	CORE SKETCH (depth of core)	COLOR	LAB. NOS.	CRUC. NOS.	SEDIMENT TYPE (e.g., silt, clay, sand, mud, etc.)
	100	Mottled	182-101 (100-106)		C/SY
	110	10 YR 2/2 with 10 YR 5/2			
	120				
	130				
	140				
	150				
	160				
	170				
	180				
	190				
	200				

## OCEANOGRAPHY-LABORATORY LOG SHEET

173

LOG BY: PROJ. NO. DATE LOGGED IN:  
 SAMPLE NO: SECTION NO: SAMPLER TYPE:  
 LATITUDE: LOCATION: WATER DEPTH: (fms) (m)  
 LONGITUDE: CORE LENGTH: (cm)  
 DATE (d-m-y) CORE PENETRATION (cm)

REMARKS: (odor, shells, bedding, structure, etc.)	CORE SKETCH (depth of core)	COLOR	LAB. NOS.	CRUC. NOS.	SEDIMENT TYPE (usual)
	200	Mottled 10 yrs 1/2 with 10 yrs 1/2			ch. AY
	210		209-216	182-106	
	220				
	230				
	240				
	250				
	260				
	270				
Volcanic glass →	270	= little white	270-273 182-109 182-110		
	280		273-274 182-111 (274-280)		
	283.5 cm.				

**OCEANOGRAPHY-LABORATORY LOG SHEET**

10G BY:

PROJ. NO.

**DATE LOGGED IN:**

SAMPLE NO:

**SECTION NO.:**

**SAMPLER TYPE:**

## LATITUDE:

**LOCATION:**

WATER DEPTH: (fms)

四

## LONGITUDE.

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CORE LENGTH: (cm)

100

DATE (day-month-year)

GORE PENETRATION (cm)

## OCEANOGRAPHY-LABORATORY LOG SHEET

LOG BY: PROJ. NO. D-5

DATE LOGGED IN:

SAMPLE NO: BS-32 SECTION NO: 1-2

SAMPLER TYPE: Kullenberg

LATITUDE:  $31^{\circ} 15.4' N$ 

WATER DEPTH: (fms)

(m) 3930

LONGITUDE:  $121^{\circ} 48.1' W$ 

CORE LENGTH: (cm) 10'

276 cm.

DATE (d-m-y) 8 Dec. 62

CORE PENETRATION (cm) -

REMARKS: (odor, shells, bedding, structure, etc.)

CORE SKETCH  
(depth of core)

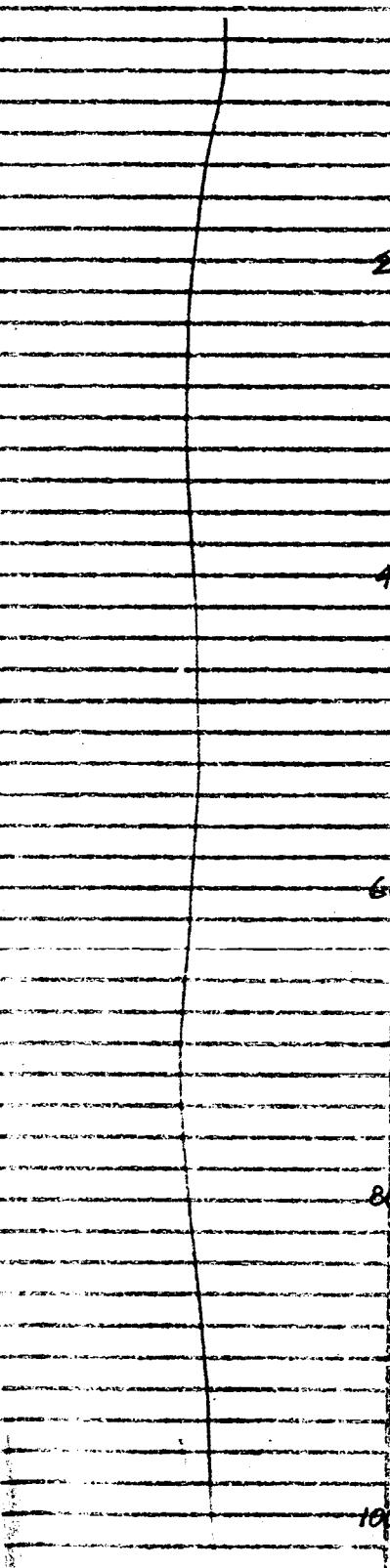
COLOR

LAB.  
NOS.CHUC.  
NOS.

SEDIMENT

TYPE  
(e.g. clay)

Homogeneous



C. 101.

Dusky Yellowish  
Brown  
10 YR 2 1/2 (0-6)

Clay

182-112

(10-17)

Dark  
Yellowish  
10 YR 2 1/2  
10 YR 4 1/2

182-113

(25-29)

182-114

(37-44)

10 YR 5 1/2  
Mottled w/  
10 YR 4 1/2

182-115

(60-66)

182-116

(60-66)

182-117

(70-85)

10

## OCEANOGRAPHY-LABORATORY LOG SHEET

LOG BY:

PROJ. NO.

DATE LOGGED IN:

SAMPLE NO.:

SECTION NO.:

SAMPLER TYPE:

LATITUDE:

LOCATION:

WATER DEPTH: (fms)

LONGITUDE:

CORE LENGTH: (cm)

DATE (d-m-y)

CORE PENETRATION (cm)

REMARKS: (odor, shells, bedding, structure, etc.)

CORE SKETCH  
(depth of core)

COLOR

LAB.  
NOS.CRUC.  
NOS.SEDIMENT  
TYPE  
(- small)*Homogeneous*

100	10 YR 5/2 Mottled w/ 10 YR 4/2	182-118 (105-112)	Clay
120			
140		182-119 (124-131)	
160		182-120 (140-146)	
180		182-121 (158-162)	
200		182-122 (168-176)	
		182-123 (190-196)	

Cont'd.

## OCEANOGRAPHY-LABORATORY LOG SHEET

LOG BY:

PROJ. NO.

DATE LOGGED IN:

SAMPLE NO:

SECTION NO:

SAMPLER TYPE:

LATITUDE:

LOCATION:

WATER DEPTH: (fms) (m)

LONGITUDE:

CORE LENGTH: (cm)

DATE (d-m-y)

CORE PENETRATION (cm)

REMARKS: (odor, shells, bedding, structure, etc.)

CORE SKETCH  
(depth of core)ECCENT  
Lab.  
NOS.TEST  
NOS.  
ColorCRUC.  
NOS.SEDIMENT  
TYPE  
(small)

Homogeneous

200

11YR 5 1/2

Clay

182-124  
(202-206)  
Mottled yellow

10YR 4 1/2

220

182-125  
(220-227)  
yellow

240

182-126  
(240-246)

260

182-127  
(261-267)

Stratified



280

Poorly

Stratified



290

296

Bottom

182-128 white

(275-280)

10YR 5 1/2

white

10YR 4 1/2

Volcanic glass

Clay

182-129

(290-296)

white

white

**OCEANOGRAPHY-LABORATORY LOG SHEET**

LOG'RY:

PROJ. NO.

DATE LOGGED IN:

SAMPLE NO.

**SECTION NO.**

SAMPLER TYPE:

**LATITUDE**

LOCATION.

WATER DEPTH: (feet)

70

**LATITUDE.**  
**LONGITUDE.**

**MAX. DEPTH (m)**

LONGITUDE.  
DATE (d m s)

CORE LENGTH: (cm) \_\_\_\_\_



## OCEANOGRAPHY-LABORATORY LOG SHEET

180

LOG BY: PROJ. NO. DATE LOGGED IN:  
 SAMPLE NO: SECTION NO: SAMPLER TYPE:  
 LATITUDE: LOCATION: WATER DEPTH: (fms) (m)  
 LONGITUDE: CORE LENGTH: (cm)  
 DATE 'd-m-y' CORE PENETRATION (cm)

REMARKS: (odor, shells, bedding, structure, etc.)	CORE SKETCH (depth of core)	COLOR	LAB. NOS.	CRUC. NOS.	SEDIMENT TYPE (visual)
	100	10YR 5/2	182-135		
		Mottled with tan (100-106)			
		10YR 4 1/2			
		Dark Yellowish Brown			
	120		182-136		
		(115-122)			
	140				
	160		182-137		
		(138-144)			
A few faecal pellets. Sediment has a somewhat mottled texture observed under the binocular microscope.	160		182-138		
Net Stratified	180		(156-162)		
		Pale Yellowish brown			
		10YR 6 1/2			
	200		182-139		
		(176-183)			

## OCEANOGRAPHY-LABORATORY LOG SHEET

181

LOG' BY: PROJ. NO. DATE LOGGED IN:  
 SAMPLE NO. SECTION NO. SAMPLER TYPE:  
 LATITUDE: LOCATION: WATER DEPTH: (fms) (m)  
 LONGITUDE: CORE LENGTH: (cm)  
 DATE (d-m-y) CORE PENETRATION (cm)

REMARKS: (odor, shells, bedding, structure, etc.)	CORE SKETCH (depth of core)	COLOR	LAB. NOS.	CRUC. NOS.	SEDIMENT TYPE (qual.)
	200	10 YR 6/2	182-140 (200-206)		Clay
	220				
	240	10 YR 6/2 with a little 10 YR 4/2 nothing	182-141 (220-226)		
An increase in the quantity of foraminifera.	260		182-142 (240-247)		
	280		182-143 (260-266)		
	300		182-144 (280-278)		
			182-145 (288-295)		

## SEANOGRAPHY-LABORATORY LOG SHEET

LOG BY:

PROJ. NO.

DATE LOGGED IN:

SAMPLE NO.:

SECTION NO.:

SAMPLER TYPE:

LATITUDE:

LOCATION:

WATER DEPTH: (fms)

(m)

LONGITUDE:

CORE LENGTH: (cm)

DATE (d-m-y)

CORE PENETRATION (cm)

REMARKS: (odor, shells, bedding, structure, etc.)

CORE SKETCH  
(depth of  
core)

COLOR

LAB.  
NOS.CRUC.  
NOS.SEDIMENT  
TYPE

↓

306-5

Bottom.

↓

182-146  
(302-3065)C124  
↓

## OCEANOGRAPHY-LABORATORY LOG SHEET

183

LOG BY: PROJ. NO. D-5

DATE LOGGED IN:

SAMPLE NO: BS-35 SECTION NO: 1-2

SAMPLER TYPE: Kullenberg

LATITUDE: 31° 40.1' N LOCATION: E. PACI

WATER DEPTH: (fms)

LONGITUDE: 121° 20.2' W

CORE LENGTH: (cm) 9'3"

DATE (d-m-y) 9 Dec. 62

CORE PENETRATION (cm)

REMARKS (odor, shells, bedding, structure, etc.)

CORE SKETCH  
(depth of core)

COLOR

LAB.  
NOS.CHOC.  
NOS.

SEDIMENT

Not Stratified  
A few faecal  
pellets throughout.

20

Dusky yellowish

Brown (0-4)

10 YR 2 1/2

182-147

(0-17)

40

Pale yellowish

Brown

10 YR 6 1/2

Slightly  
mottled

with

10 YR 5 1/2

182-149

(32-38)

60

6

182-150

(53-60)

80

182-151

(78-84)

100

10

11

## OCEANOGRAPHY-LABORATORY LOG SHEET

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**OCEANOGRAPHY-LABORATORY LOG SHEET**

1

LOG BOOK

PROJ. NO.

**DATE LOGGED IN:**

**SAMPLE NO. 2**

**SECTION NO.**

**SAMPLER TYPE:**

LATITUDE

**LOCATION:**

WATER DEPTH: (fms)

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## LONGITUDE

CORE LENGTH: (cm)

Digitized by Google

## COKE PENETRATION

REMARKS

SOME GENETICATION (cm)

REMARKS: (odor, shells,  
bedding, structure, etc.)

(depth of core)

COLOR

LAB  
NOS

CRUC.  
NOS.

## SEDIMENT

1000 (1993)



**OCEANOGRAPHY-LABORATORY LOG SHEET**

**LOG BY:**

PROJ. NO.

**DATE LOGGED IN:**

SAMPLE NO:

**SECTION NO.**

**SAMPLER TYPE:**

LATITUDINE.

**LOCATION.**

**WATER DEPTH.**

LONGITUDE.

卷之三

CORE LENGTH: (cm)

三

DATE: (d-m-y)

**CORE LENGTH. (cm.)**

## OCEANOGRAPHY-LABORATORY LOG SHEET

150

LOG BY:

PROJ. NO. D-5

DATE LOGGED IN:

SAMPLE NO. BS-37

SECTION NO.

SAMPLER TYPE:

LATITUDE: 39° 55.4' N

LOCATION: E. Pac.

WATER DEPTH: (fms)

LONGITUDE: 122° 00.8' W

DATE (d-m-y) 11 Dec 62

CORE LENGTH: (cm) 55"

REMARKS (odor, shells, bedding, structure, etc.)

CORE SKETCH  
(depth of core)

CORE PENETRATION (cm)

&lt;/div

**OCEANOGRAPHY-LABORATORY LOG SHEET**

10

15 BY 30

PROJ. NO.

**DATE LOGGED IN:**

SAMPLE NO:

SECTION NO.

**SAMPLER TYPE:**

LATITUDINE

**LOCATION:**

WATER DEPTH: ( cms )

3

## LONGITUDE

**CORE LENGTH (cm)**

10

SONG 1933.

### **CORE PENETRATION**

三

REMARKS

CONE PENETRATION TEST

1115

bedding, structure, etc.) (depth of core) (20 core)

COLOR

LAB.  
NOS.

CRUC.  
NO. 3.

## SEDIMENT

(small)

100

1783 136

182-176

(104-108)

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— 7 —

Send more heavily concentrated.

**CORE ANALYSIS SUMMARY SHEET**  
**ENGINEERING PROPERTIES**

ANALYZED BY NCEL  
DATE 27 November 1963

NAVOCANO-DO-10073-16m (1.01)

AG S(50)CEH both - 1963

CRUISE NO.	D-5	4. SAMPLE NO.	B5-1B	7. TYPE CORE	HYDROPLASTIC
2. LATITUDE	37° 47.9' N	5. DATE TAKEN (Day, month, year)	1/5/63	8. CORE LENGTH (cm)	66
3. LONGITUDE	127° 17.5' W	6. WATER DEPTH (m)	44.24	9. CORER PENETRATION (cm) NOT RECORDED	
10. SUBSAMPLE DEPTH IN CORE (cm)	0.0-7.6	15.2-22.9	30.5-38.1	45.7-53.3	
11. WET UNIT WEIGHT (g/cm³)	1.350	1.336	1.330	1.342	
12. SPECIFIC GRAVITY OF SOLIDS	2.760	2.750	2.748	2.790	
13. WATER CONTENT (% dry weight)	132.6	135.6	145.8	160.4	
14. VDL RATIO	3.762	3.854	4.076	4.405	
15. SATURATED VOID RATIO	3.660	3.729	4.007	4.475	
16. POROSITY (%)	79.0	79.4	80.3	81.5	
17. LIQUID LIMIT	84.9	79.3	99.1	112.7	
18. PLASTIC LIMIT	34.9	31.4	35.9	33.6	
19. PLASTICITY INDEX	50.0	47.9	63.2	79.1	
20. LIQUIDITY INDEX	19.5	21.8	17.4	16.0	
21. COMPRESSION INDEX FROM LL	0.68	0.62	0.80	0.93	
22. IMPRESSIVE STRENGTH NATURAL	19/cm²	—	—	—	
REMOULD	19/cm²	—	—	—	
23. COMPRESSION	NATURAL	34.6	25.1	36.8	57.9
	REMOULD	(g/cm²)	5.69	5.55	5.69
24. SENSITIVITY	6.1	4.5	6.5	6.6	
25. ANGLE OF INTERNAL FRICTION (°)	—	—	—	—	
26. ACTIVITY	0.7	0.7	0.9	1.1	
27. MODULUS OF ELASTICITY	—	—	—	—	
28. SCLUMP (%)	—	—	—	—	
29. REMARKS	This core sample is a very uniform clay with variations in color with depth. The core is light olive gray with irregular light and dark yellowish brown mottling down to a depth of about 1/2 inches. Below this, it is greenish gray with possibly some areas of mottling to darker shades of gray. No shells, grains, or organic growth visible. No layering present.				

**CORE ANALYSIS SUMMARY SHEET**  
**ENGINEERING PROPERTIES**

ANALYZED BY NCEL  
DATE 10 December 1963

NAVOCANO-ESP-3101788 (Rev. 1-63)

1. CRUISE NO.	D-5	4. SAMPLE NO.	B5-2B	7. TYPE CORE HYDROPLASTIC
2. LATITUDE	38° 0' 00.0" N	5. DATE TAKEN (DAY, Month, Year)	1/5/63	8. CORE LENGTH (cm) 89
3. LONGITUDE	127° 0' 04.6" W	6. WATER DEPTH (m)	4.380	9. CORE PENETRATION (cm) NOT RECORDED
10. SUBSAMPLE DEPTH IN CORE (cm)	0.0-7.6	15.2-22.9	30.5-38.1	45.7-53.3
11. WET UNIT WEIGHT (kg/cm³)	1.355	1.360	1.334	1.332
12. SPECIFIC GRAVITY OF SOLIDS	2.856	2.761	2.829	2.918
13. WATER CONTENT (% dry weight)	146.9	127.1	141.7	149.4
14. VOID RATIO	4.208	3.608	4.236	4.464
15. SATURATED VOID RATIO	4.195	3.509	4.150	4.359
16. POROSITY (%)	80.8	78.3	80.9	81.7
17. LIQUID LIMIT	102.9	107.5	112.5	110.9
18. PLASTIC LIMIT	38.5	30.9	32.9	31.2
19. PLASTICITY INDEX	64.4	72.6	65.6	79.7
20. LIQUIDITY INDEX	16.8	12.6	13.3	14.0
21. COMPRESSION INDEX FROM LL	0.84	0.88	0.97	0.91
22. COMPRESSIVE STRENGTH NATURAL	(kg/cm²)	(kg/cm²)	(kg/cm²)	(kg/cm²)
REMOULD	—	—	—	—
NATURAL	27.6	63.4	32.2	40.3
REMOULD	6.89	15.0	10.3	12.4
	4.0	4.2	3.1	3.2
24. SENSITIVITY	—	—	—	—
25. ANGLE OF INTERNAL FRICTION (°)	0.9	1.3	1.2	1.1
26. ACTIVITY	—	—	—	—
27. MODULUS OF ELASTICITY	—	—	—	—
28. SLUMP (S)	—	—	—	—
29. REMARKS	This sample is very uniform clay with similar color variations as in core BS-1B. The upper 5% of the core is light olive gray with mottling of light to dark grayish brown. The lower portion of the core is greenish gray with some areas of dark gray mottling. Horizontal layers about 1mm in thickness are present in the greenish gray areas. No visible grains, shells, or organic growth.			

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29. REMARKS This sample is very uniform clay with similar color variations as in core BS-1B. The upper 5% of the core is light olive gray with mottling of light to dark grayish brown. The lower portion of the core is greenish gray with some areas of dark gray mottling. Horizontal layers about 1mm in thickness are present in the greenish gray areas. No visible grains, shells, or organic growth.

U.S. ANALYSTS SURVEY  
ENGINEERING PROPERTIES

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AUTHORIZED BY NCERT

DATE 9 Dec 1963

LAB. CRUISE NO.	D - 5	4. SAMPLE NO. B5 - 3B		7. TYPE CORE HYDROPLASTIC	
		11. LATITUDE 37° 49.2' N	12. LONGITUDE 126° 48.9' W	5. DATE TAKEN (Day, Month, Year) 6. WATER DEPTH (m)	8. CORE LENGTH (cm)
10. SUBSAMPLE DEPTH IN CORE (cm)	0.0 - 7.6	15.2 - 22.9	30.5 - 38.1	45.7 - 53.3	61.0 - 68.6
11. WET UNIT WEIGHT ( $\text{g/cm}^3$ )	1.381	1.347	1.337	1.342	1.371
12. SPECIFIC GRAVITY OF SOLIDS	3.037	3.015	3.046	3.081	3.071
13. WATER CONTENT (% dry weight)	127.6	131.5	148.6	141.4	142.4
14. VOID RATIO	4.000	4.181	4.650	4.556	4.435
15. SATURATED VOID RATIO	3.875	3.965	4.526	4.357	4.373
16. POSITIVITY (%)	80.0	80.7	82.3	82.0	81.6
17. LIQUID LIMIT	91.6	103.9	110.8	115.9	108.3
18. PLASTIC LIMIT	28.0	32.0	31.4	32.0	30.4
19. PLASTICITY INDEX	53.6	71.9	79.4	83.9	77.9
20. LIQUIDITY INDEX	16.7	13.8	14.8	13.0	14.4
21. COMPRESSIBILITY INDEX FROM LL	0.744	0.85	0.91	0.95	0.88
22. COMPRESSIVE STRENGTH NATURAL RECORD	( $\text{kg/cm}^2$ ) REHOLD	— 19.6	— 19.6	— 19.6	— 19.6
23. COHESION REHOLD	( $\text{kg/cm}^2$ ) REHOLD	45.9	33.7	40.2	47.8
24. SENSITIVITY	3.4	4.7	4.9	3.2	6.9
25. ANGLE OF INTERNAL FRICTION (°)	—	—	—	—	—
26. ACTIVITY	0.7	1.0	1.2	1.3	1.2
27. MODULUS OF ELASTICITY	—	—	—	—	—
28. SUBLICTION (cm)	—	—	—	—	—

This sample is a uniform clay with the identical stratigraphic break as in samples BS-1B and BS-2B. The top 8" of the core is light olive gray. Below the break at 8", the sample contains typical greenish gray sediments observed in previous samples. A small horizontal layer of very fine sand is present at the 4" depth. Possible horizontal layers 1mm thick are present in the top portion of the greenish gray areas. There is a slight trace of black mottling in the lower part of the sample.

C  
CORE ANALYSIS SUMMARY SHEET

ENGINEERING PROPERTIES

ANALYZED BY NCEI

MANOOGIAN-EX-10733 (Ex 1-N)

DATE 11 Dec 1963

1. CRUISE NO.	2. LATITUDE	3. LONGITUDE	4. SAMPLE NO.	5. DATE TAKEN (DAY, MONTH, YEAR)	6. WATER DEPTH (m)	7. TYPE CORE HYDROPLASTIC	8. CORE LENGTH (cm)	9. CORER PENETRATION (cm) NOT RECORDED
1. CRUISE NO.	D-5		4. SAMPLE NO.	85-4B				
2. LATITUDE	37° 30' N		5. DATE TAKEN (DAY, MONTH, YEAR)	1/5/63				
3. LONGITUDE	127° 05' W		6. WATER DEPTH (m)	44.44				
10. SUSPENDED DEPTH IN CORE (cm)	0.0-7.6	15.2-22.9	30.5-38.1	45.7-53.3	61.0-68.6	76.2-83.8		
11. WET UNIT WEIGHT (g/cm³)	1.379	1.360	1.352	1.369	1.407	1.343		
12. SPECIFIC GRAVITY OF SOLIDS	2.712	2.689	2.692	2.669	2.684	2.686		
13. WATER CONTENT (% dry weight)	124.9	148.5	142.3	151.0	127.1	128.9		
14. VOID RATIO	3.425	3.926	3.831	3.902	3.329	3.566		
15. SATURATED VOID RATIO	3.387	3.993	3.831	4.030	3.411	3.462		
16. PLASTICITY (S)	77.4	79.7	79.3	79.6	76.9	78.1		
17. LIQUID LIMIT	102.6	96.9	95.9	104.1	95.7	86.2		
18. PLASTIC LIMIT	38.7	35.6	32.4	33.0	31.6	31.5		
19. PLASTICITY INDEX	63.9	61.3	63.5	71.1	64.1	54.7		
20. LIQUIDITY INDEX	135	184	173	166	149	178		
21. CONSISTENCY INDEX FROM LL	0.84	0.78	0.77	0.85	0.77	0.68		
22. COMPRESSIVE STRENGTH NATURAL RECORD	( $\text{kg/cm}^2$ )	—	—	—	—	—		
23. CONSISTENCY NATURAL RECORD	( $\text{kg/cm}^2$ )	—	—	—	—	—		
24. SENSITIVITY	53.8	27.6	26.6	33.7	51.5	30.2		
25. VALUE OF INTERFACIAL FRICTION (f)	3.7	4.6	4.4	3.9	5.5	5.3		
26. ACTIVITY	0.9	0.8	0.9	0.9	0.9	0.8		
27. MODULUS OF ELASTICITY	—	—	—	—	—	—		
28. SURF. (F)	—	—	—	—	—	—		
29. COMMENTS	The stratigraphic discontinuity observed in previous samples does not occur in this core. This sample is a uniform clay with colors of pale yellowish brown and horizontal layers of pale olive which occur at 5"-7" and 17"-25" depths. Dark brown, irregular, semi-horizontal layers of 3-15mm thickness are found in the pale yellowish brown areas. There appears to have been considerable disturbance during deposition of these areas. No visible shells or organic growth present.							

CORE ANALYSIS SUMMARY SHEET  
ENGINEERING PROPERTIES

ANALYZED BY NCEL

DATE 17 OCTOBER 1963

	D-5	B5 - 5B	7. TYPE CORE KULLENBERG	
1. CORE NO.	4. SAMPLE NO.	5. DATE TAKEN, MONTH, YEAR	9. CORE LENGTH (cm) / 90	
2. LATITUDE	35° 0' 11.2"	N	6. WATER DEPTH (m)	7. 5.89
3. LONGITUDE	125° 50' 50.5"	W	7. 5.225	8. 10.5-30.1-57.53.3
10. SUBSAMPLE DENSITY (g/cm³)	0.76	9. 6.0-6.8-6.7-2.0-3.0	10. 0.4-9.1	11. 0.7-11.4
11. NET UNIT WEIGHT (g/cm³)	1.231	12. 1.307	13. 1.369	14. 1.414
12. SPECIFIC GRAVITY OF SOLIDS	2.675	15. 2.620	16. 2.655	17. 2.701
13. WATER CONTENT (% dry weight)	146.6	18. 2.03.6	19. 2.08.8	20. 166.8
14. VOID RATIO	4.556	21. 4.567	22. 5.028	23. 4.000
15. SATURATED VOID RATIO	3.577	24. 4.252	25. 5.361	26. 5.369
16. PECOSITY (%)	82.0	27. 82.1	28. 83.6	29. 84.3
21. LIQUID LIMIT	113.9	30. 113.2	31. 115.2	32. 124.1
18. PLASTIC LIMIT	39.7	33. 42.5	34. 48.0	35. 52.9
19. PLASTICITY INDEX	74.2	36. 70.7	37. 67.2	38. 71.2
20. LIQUIDITY INDEX	147	41. 169	42. 232	43. 219
21. COHESION STRENGTH FROM LI	0.94	44. 0.93	45. 1.03	46. 0.92
22. COHESIVE STRENGTH NATURAL FIELD	—	47. —	48. —	49. —
23. COHESION NATURAL FIELD	43.8	50. 23.1	51. 11.5	52. 12.4
24. SENSITIVITY	7.2	54. 4.2	55. 20.5	56. 11.1
25. COHESION INTERNAL FRICTION (°)	—	57. —	58. —	59. —
26. ACTIVITY	1.2	60. 1.3	61. 1.2	62. 1.1
27. COHESION INTERNAL FRICTION	—	63. —	64. —	65. —
28. CUMS (%)	—	66. —	67. —	68. —
1. CORE NO.	D-5	4. SAMPLE NO.	5. DATE TAKEN, MONTH, YEAR	9. CORE LENGTH (cm) / 90
2. LATITUDE	35° 0' 11.2"	N	6. WATER DEPTH (m)	7. 5.89
3. LONGITUDE	125° 50' 50.5"	W	7. 5.225	8. 10.5-30.1-57.53.3
10. SUBSAMPLE DENSITY (g/cm³)	0.76	9. 6.0-6.8-6.7-2.0-3.0	10. 0.4-9.1	11. 0.7-11.4
11. NET UNIT WEIGHT (g/cm³)	1.231	12. 1.307	13. 1.369	14. 1.414
12. SPECIFIC GRAVITY OF SOLIDS	2.675	15. 2.620	16. 2.655	17. 2.701
13. WATER CONTENT (% dry weight)	146.6	18. 2.03.6	19. 2.08.8	20. 166.8
14. VOID RATIO	4.556	21. 4.567	22. 5.028	23. 4.000
15. SATURATED VOID RATIO	3.577	24. 4.252	25. 5.361	26. 5.369
16. PECOSITY (%)	82.0	27. 82.1	28. 83.6	29. 84.3
21. LIQUID LIMIT	113.9	30. 113.2	31. 115.2	32. 124.1
18. PLASTIC LIMIT	39.7	33. 42.5	34. 48.0	35. 52.9
19. PLASTICITY INDEX	74.2	36. 70.7	37. 67.2	38. 71.2
20. LIQUIDITY INDEX	147	41. 169	42. 232	43. 219
21. COHESION STRENGTH FROM LI	0.94	44. 0.93	45. 1.03	46. 0.92
22. COHESIVE STRENGTH NATURAL FIELD	—	47. —	48. —	49. —
23. COHESION NATURAL FIELD	43.8	50. 23.1	51. 11.5	52. 12.4
24. SENSITIVITY	7.2	54. 4.2	55. 20.5	56. 11.1
25. COHESION INTERNAL FRICTION (°)	—	57. —	58. —	59. —
26. ACTIVITY	1.2	60. 1.3	61. 1.2	62. 1.1
27. COHESION INTERNAL FRICTION	—	63. —	64. —	65. —
28. CUMS (%)	—	66. —	67. —	68. —

This sample is a fairly uniform clay with some variations in silt content with depth. The typical color layers observed in previous samples are present here. The stratigraphic break from dark yellowish brown to dark greenish grey occurs at the 24m depth. Horizontal layers 0.3m thick at 48m and 60m appear to have been paths of burrowing organisms.

**CORE ANALYSIS SUMMARY SHEET**

ANALYST: **MCLELLAND**  
DATE: **17 OCTOBER 1963**

TEST NUMBER: 60-1-63		TEST NO.: D-5	TEST NO.: 85-68	TEST NO.: 85-68
1. TEST TYPE:	58 = 1/2 : N	4. Saturated Unconfined Strength (kg/cm²)	6 - 5 - 63	7. TYPE CONE: KULLFEN
2. LOADING RATE:	126.0	50.5	IV	8. CONE LENGTH (cm)
3. TEST DATE:	10/13/63	10/13/63	10/13/63	9. CONE PENETRATION (cm) (%)
4. TEST DURATION (min)	4.359	16.5 - 17.5	16.5 - 17.5	10. CONE PENETRATION (%) (%)
5. TEST WEIGHT (g/cm²)	—	—	—	11. UNIT WEIGHT (g/cm³)
6. SPECIFIC GRAVITY OF SOLIDS	2.715	2.485	—	12. SATURATED VOID RATIO
7. WATER CONTENT (% dry weight)	150.5	59.6	—	13. PLASTIC LIMIT
8. VOID RATIO	3.902	1.865	—	14. LIQUID LIMIT
9. PLASTICITY INDEX	4.085	1.600	—	15. CONFINED STRENGTH (kg/cm²)
10. LIQUID LIMIT	79.6	65.1	—	16. PEATOSITY (G)
11. PLASTIC LIMIT	102.6	40.4	—	17. CONFINED STRENGTH (kg/cm²)
12. LIQUIDITY INDEX	32.4	24.2	—	18. CONFINED STRENGTH (kg/cm²)
13. CONSTITUTION:	70.2	14.0	—	19. CONFINED STRENGTH (kg/cm²)
14. SENSITIVITY	5.1	12.5	—	20. ACTIVITY
15. ANGLE OF INTERNAL FRICTION (°)	—	—	—	21. COHESION OR GLUTICITY
16. ACTIVITY	1.3	0.4	—	22. SOFTENING POINT (C)
23. CONFINED STRENGTH (kg/cm²)	32.5	8.81	—	24. LIQUEFACTION
24. CONFINED STRENGTH (kg/cm²)	6.33	6.89	—	25. LIQUEFACTION
25. CONFINED STRENGTH (kg/cm²)	—	—	—	26. LIQUEFACTION
26. CONFINED STRENGTH (kg/cm²)	—	—	—	27. LIQUEFACTION
27. CONFINED STRENGTH (kg/cm²)	—	—	—	28. LIQUEFACTION
28. CONFINED STRENGTH (kg/cm²)	—	—	—	29. LIQUEFACTION

**CORE ANALYSIS SUMMARY SHEET**  
**ENGINEERING PROPERTIES**

ANALYZED BY MCNELL  
DATE 5 NOVEMBER 1963

**NAVOCARDO-02-11203 (Rev 1-6)**

	D-5	B5-CB1	1. CORE LENGTH 76
1. SAMPLE NO.		1. DRIE TAKEN (Days Month Year) 10-5-63	3. CORE LENGTH (cm) 76
2. DRY WEIGHT	38.0	10. N	4.4 4.4
3. DRY DENSITY	1.27 g/cm <sup>3</sup>	1.86 g/cm <sup>3</sup>	5. CORE PENETRATION (cm) NOT RECORDED
4. DRY UNIT WEIGHT (kN/m <sup>3</sup> )			
5. DRY UNIT WEIGHT IN SILET (cm)			
6. DRY UNIT WEIGHT IN CLAY (cm)			
7. DRY UNIT WEIGHT IN SILT (cm)			
8. DRY UNIT WEIGHT IN STONE (cm)			
9. SATURATED UNIT WEIGHT (g/cm <sup>3</sup> )			
10. SATURATED UNIT WEIGHT (kN/m <sup>3</sup> )			
11. SATURATED UNIT WEIGHT (cm)			
12. SPECIFIC GRAVITY OF SOLIDS			
13. WATER CONTENT (% dry weight)			
14. VOID RATIO			
15. SATURATED VOID RATIO			
16. POROSITY (%)			
17. LIQUID LIMIT			
18. PLASTIC LIMIT			
19. PLASTICITY INDEX			
20. LIQUIDITY INDEX			
21. COMPRESSIBILITY INDEX FROM LL			
22. COMPRESSIVE STRENGTH NATURAL RECORD	0.79	0.73	0.46 0.16 0.65
23. CONSOLIDATION CONSTITUTION			
24. SENSITIVITY			
25. ANGLE OF INTERNAL FRICTION (°)	—	—	—
26. ACTIVITY	0.9	1.1 0.5	0.9
27. MODULUS OF ELASTICITY	—	—	—
28. SWELL (%)	—	—	—
29. NOTE: This sample is a silty clay with a layer of silt between the 19½" and 23" depth. There are also irregular patches of silt within the clay below this layer. The stratigraphic break occurs at the 14" depth in this sample. The top layer is light olive gray with some suggestion of color mottling. Below the break which occurs in a somewhat horizontal plane, is the typical greenish gray observed in horizontal layers. No shells or	—	—	—

○ CGGE ANALYSIS SUMMARY SHEET  
ENGINEERING PROPERTIES

NCEL

ANALYST # DATE 22 Nov. 1963

NOVOCAGE-CP-11-27-19 (Rev. 1-63)

1. CRUISE NO.		2. LATITUDE		3. LONGITUDE		4. SAMPLE NO.		5. DATE TAKEN (Day, Month, Year)		6. CORE LENGTH (in)		7. TYPE CORE		8. CILLEYE R.G.		9. CUPER PENETRATION (cm) AND NOT RECORDED	
1. CRUISE NO.	0-5	10°	1°	127°	0'	10	73	DATE TAKEN (Day, Month, Year)	10/16/63	CORE LENGTH (in)	46.56	TYPE CORE	CLILLEYE R.G.	CORE LENGTH (cm)	229	CUPER PENETRATION (cm) AND NOT RECORDED	
2. LATITUDE	10° 33' 0"	10° 37' 0"	10° 37' 0"	10° 37' 0"	10° 37' 0"	10. SUBSAMPLE DEPTH IN CORE (cm)	0.0-7.6	DATE TAKEN (Day, Month, Year)	10/16/63	CORE LENGTH (in)	45.7-53.3	CLILLEYE R.G.	10.9-11.4	CORE LENGTH (cm)	152-150	CUPER PENETRATION (cm) AND NOT RECORDED	
3. LONGITUDE	127° 0' 0"	127° 0' 0"	127° 0' 0"	127° 0' 0"	127° 0' 0"	11. WET UNIT WEIGHT (g/cm³)	1.297	DATE TAKEN (Day, Month, Year)	10/16/63	CORE LENGTH (in)	1.235	CLILLEYE R.G.	1.366	CORE LENGTH (cm)	14.45	CUPER PENETRATION (cm) AND NOT RECORDED	
4. SUBSAMPLE DEPTH IN CORE (cm)	0.0-7.6	10/16/63	30.5-38.1	45.7-53.3	11.0-68.4	12. SPECIFIC GRAVITY OF SOLIDS	2.839	DATE TAKEN (Day, Month, Year)	10/16/63	CORE LENGTH (in)	2.701	CLILLEYE R.G.	2.93	CORE LENGTH (cm)	152-150	CUPER PENETRATION (cm) AND NOT RECORDED	
5. 11. WET UNIT WEIGHT (g/cm³)	1.297	10/16/63	2.747	2.742	2.695	13. WATER CONTENT (% dry weight)	128.5	DATE TAKEN (Day, Month, Year)	10/16/63	CORE LENGTH (in)	11.7	CLILLEYE R.G.	11.4	CORE LENGTH (cm)	14.45	CUPER PENETRATION (cm) AND NOT RECORDED	
6. 12. SPECIFIC GRAVITY OF SOLIDS	2.839	10/16/63	126.5	133.0	133.0	14. VOID RATIO	4.102	DATE TAKEN (Day, Month, Year)	10/16/63	CORE LENGTH (in)	4.102	CLILLEYE R.G.	4.816	CORE LENGTH (cm)	12.54	CUPER PENETRATION (cm) AND NOT RECORDED	
7. 13. WATER CONTENT (% dry weight)	128.5	10/16/63	3.651	3.525	3.102	15. SATURATED VOID RATIO	3.648	DATE TAKEN (Day, Month, Year)	10/16/63	CORE LENGTH (in)	3.469	CLILLEYE R.G.	3.592	CORE LENGTH (cm)	12.23	CUPER PENETRATION (cm) AND NOT RECORDED	
8. 14. VOID RATIO	4.102	10/16/63	3.264	3.264	3.264	16. PLASTICITY (S)	20.4	DATE TAKEN (Day, Month, Year)	10/16/63	CORE LENGTH (in)	77.9	CLILLEYE R.G.	78.7	CORE LENGTH (cm)	14.45	CUPER PENETRATION (cm) AND NOT RECORDED	
9. 15. LIQUID LIMIT	99.9	94.0	106.8	103.4	82.2	17. PLASTICITY INDEX	46.8	DATE TAKEN (Day, Month, Year)	10/16/63	CORE LENGTH (in)	78.9	CLILLEYE R.G.	76.7	CORE LENGTH (cm)	12.54	CUPER PENETRATION (cm) AND NOT RECORDED	
10. PLASTIC LIMIT	46.8	44.0	40.9	34.4	31.6	18. LIQUIDITY INDEX	154	DATE TAKEN (Day, Month, Year)	10/16/63	CORE LENGTH (in)	133	CLILLEYE R.G.	174	CORE LENGTH (cm)	12.23	CUPER PENETRATION (cm) AND NOT RECORDED	
11. PLASTICITY INDEX	53.1	50.0	65.9	74.0	50.6	19. COMPRESSION INDEX FROM LL	0.81	DATE TAKEN (Day, Month, Year)	10/16/63	CORE LENGTH (in)	0.87	CLILLEYE R.G.	0.65	CORE LENGTH (cm)	14.45	CUPER PENETRATION (cm) AND NOT RECORDED	
20. LIQUIDITY INDEX	154	148	130	170	170	21. COMPRESSION INDEX FROM LL	0.81	DATE TAKEN (Day, Month, Year)	10/16/63	CORE LENGTH (in)	0.76	CLILLEYE R.G.	0.62	CORE LENGTH (cm)	14.45	CUPER PENETRATION (cm) AND NOT RECORDED	
22. COMPRESSIVE STRENGTH NATURAL (kg/cm²)	-	-	-	-	-	23. COMPRESSIVE STRENGTH NATURAL (kg/cm²)	40.8	DATE TAKEN (Day, Month, Year)	10/16/63	CORE LENGTH (in)	44.8	CLILLEYE R.G.	54.3	CORE LENGTH (cm)	14.45	CUPER PENETRATION (cm) AND NOT RECORDED	
REBOLD (kg/cm²)	-	-	-	-	-	REBOLD (kg/cm²)	14.4	DATE TAKEN (Day, Month, Year)	10/16/63	CORE LENGTH (in)	24.1	CLILLEYE R.G.	8.51	CORE LENGTH (cm)	14.45	CUPER PENETRATION (cm) AND NOT RECORDED	
24. SENSITIVITY	2.8	4.0	3.7	3.6	3.8	25. ACTIVE INTERNAL FRICTION (φ)	-	DATE TAKEN (Day, Month, Year)	10/16/63	CORE LENGTH (in)	1.1	CLILLEYE R.G.	1.1	CORE LENGTH (cm)	14.45	CUPER PENETRATION (cm) AND NOT RECORDED	
26. ACTIVITY	0.9	0.8	1.2	1.5	4.3	27. RESISTANT CP ELASTICITY	-	DATE TAKEN (Day, Month, Year)	10/16/63	CORE LENGTH (in)	1.2	CLILLEYE R.G.	1.2	CORE LENGTH (cm)	14.45	CUPER PENETRATION (cm) AND NOT RECORDED	
28. SWELL (%)	-	-	-	-	-	29. REMARKS	-	DATE TAKEN (Day, Month, Year)	10/16/63	CORE LENGTH (in)	-	CLILLEYE R.G.	-	CORE LENGTH (cm)	-	CUPER PENETRATION (cm) AND NOT RECORDED	

This core sample is similar in appearance to cores described previously. The dark yellowish brown zone at the top is 10½" thick. Below this depth there are several layers of different shades of green. The colors and locations of these layers are: greenish gray (10½"-20"), grayish olive (20"-44"), greenish gray (44"-67"), grayish olive (67"-80"), dark greenish gray (80"-85"), and greenish gray for the remainder of the sample. Mottling occurs

○ CORE ANALYSIS SUMMARY SHEET  
ENGINEERING PROPERTIES

ANALYSED BY NCEL

DATE 22 Nov. 1963

NAVOCANO-EN-319/133 (P.M. 1-63)

1. CROWN H. D. 5	2. LATITUDE 38° 10' N	3. DATE TAKEN 1961, Month year 10/5/63	4. SAMPLE NO. B5-7B	5. CORE LENGTH (cm) 22.9	6. TYPE CORE KULLEN 3-25
2. LONGITUDE 127° 37' W	3. WATER DEPTH (m) 46.56	4. SUBSAMPLE DEPTH IN CORE (cm)	5. CORE PENETRATION (cm) NOT RECORDED		
		183-190 198-205 213-221			
11. WET UNIT WEIGHT (g/cm³)	12. SPECIFIC GRAVITY OF SOLIDS	13. WATER CONTENT (% dry weight)	14. VOID RATIO	15. SATURATED VOID RATIO	16. POROSITY (%)
	2.734	132.8 98.8 92.7	3.425 2.509 2.401	3.631 2.654 2.558	17.4 71.5 70.6
17. LIQUID LIMIT	18. PLASTIC LIMIT	19. PLASTICITY INDEX	20. LIQUIDITY INDEX	21. COHESION INDEX FROM LL	22. COMPRESSIVE STRENGTH NATURAL
	90.4 72.3 83.6	53.4 37.1 55.0	17.9 17.1 11.7	0.72 0.526 0.67	19/cm² - -
23. COHESION NATURAL	REHOLD	24. SENSITIVITY	25. ANGLE OF INTERNAL FRICTION (°)	26. ACTIVITY	27. MODULUS OF ELASTICITY
	(g/cm²)			1.0 0.8 1.2	- - -
28. SWELL (%)				- - -	
29. REACTIONS					

280

extensively in the dark yellowish brown zone and slightly in the greenish gray zones. The sample is generally a silty clay except for two layers of silt at depths of 40"-44" and 80"-85". No shells or organic growth observed.

CORE ANALYSIS SUMMARY SHEET  
ENGINEERING PROPERTIES

ANALYZED BY NCEL

DATE 18 Nov. 1963

NAVOCARDO-2015/533 (Box 1-3)

1. SAMPLE NO.	2. LATITUDE	3. LONGITUDE	4. SAMPLE NO.	5. DATE TAKEN (Day, Month Year)	6. BATHY DEPTH (ft)	7. TYPE CORE KUULLENBERG	8. CORE LENGTH (cm)	9. CORE PENETRATION (cm) NOT RECORDED
D-5	38° 07.0' N	127° 47.5' W	B5-B8	10/5/63	4550		160	
10. SUBSAMPLE DEPTH IN CORE (cm)	0.0-7.6	15.2-22.9	30.5-38.1	45.7-53.5	68.4	76.2-83.4	91.4-99.1	107.1-142.1
11. WET UNIT WEIGHT (g/cm <sup>3</sup> )	1.241	1.316	1.393	1.357	1.407	1.465	1.516	1.464
12. SPECIFIC GRAVITY OF SOLIDS	2.801	2.839	2.784	2.720	2.764	2.721	2.714	2.742
13. WATER CONTENT IN DRY WEIGHT	123.6	121.0	130.3	124.5	122.4	125.6	112.0	129.1
14. D10 RATIO	4.051	3.762	3.608	3.505	3.367	3.184	2.802	3.292
15. SATURATED VOID RATIO	3.468	3.435	3.628	3.386	3.383	3.418	3.040	3.540
16. PLASTICITY (S)	80.2	79.0	78.3	77.8	77.1	76.1	73.7	76.7
17. LIQUID LIMIT	97.7	95.4	103.8	84.2	78.0	74.1	67.6	98.5
18. PLASTIC LIMIT	41.7	37.4	40.0	34.1	32.6	31.7	29.5	34.2
19. PLASTICITY INDEX	56.0	58.0	68.8	50.1	46.2	42.4	38.1	54.1
20. LIQUIDITY INDEX	146	144	131	180	194	221	217	157
21. CONSISTENCY INDEX FROM LI	0.79	0.76	0.89	0.67	0.62	0.58	0.52	0.79
22. COMPRESSIVE STRENGTH NATURAL (kg/cm <sup>2</sup> )	—	—	—	—	—	—	—	—
RESOLID (kg/cm <sup>2</sup> )	—	—	—	—	—	—	—	—
23. CONSISTENCY NATURAL (kg/cm <sup>2</sup> )	316.8	44.6	50.6	23.3	17.0	14.1	20.7	122.7
RESOLID (kg/cm <sup>2</sup> )	137	153	150	56.9	2.95	2.53	3.44	20.0
24. SENSITIVITY	2.7	2.9	3.4	4.1	5.8	5.6	6.0	6.1
25. ANGLE OF INTERNAL FRICTION (°)	—	—	—	—	—	—	—	—
26. ACTIVITY	1.0	1.1	1.4	1.2	1.2	0.7	1.3	1.1
27. MODULUS OF ELASTICITY	—	—	—	—	—	—	—	—
28. STRENGTH (S)	—	—	—	—	—	—	—	—

29. REMARKS Appearance of this core is similar to cores described previously. The yellowish brown zone is 41/2" thick. Greenish sediments are dominant below the stratigraphic break. Mottling occurs throughout the sample except in the interval 13-1/2" to 42" where it is a uniform grayish olive green. The sample is generally a silty clay except for a 1" layer of silt beginning at the 41" depth. No shells, organic growth, or visible clastic grains present.

(C) CORE ANALYSIS SUMMARY SHEET  
ENGINEERING PROPERTIES

NCEL

ANALYST: DATE: 12 Nov. 1963

MANOCLAS-0-2310703 (Box 1-62)

1. CORE NO.	0-5	4. SAMPLE NO.	85-93	7. TYPE CORE	KLILL CYLINDER
2. LATITUDE	35° 09' 6" N	5. DATE TAKEN (Date Month Year)	11/5/63	8. CORE LENGTH (cm)	165
3. LONGITUDE	128° 05' 4" W	6. WATER DEPTH (m)	47.20	9. CORE PENETRATION (cm) NOT RECORDED	
10. SUBSAMPLE DEPTH IN CORE (cm)	0.0-7.6	15.2-22.9	30.5-38.1	45.7-53.3	61.0-68.6
11. WET UNIT WEIGHT (g/cm³)	1.387	1.431	1.446	1.436	1.418
14. VOID RATIO	3.831	3.504	3.504	3.731	2.764
15. SATURATED VOID RATIO	3.958	3.720	3.766	3.732	4.008
16. POROSITY (%)	79.3	77.8	77.8	79.1	74.0
17. LIQUID LIMIT	100.4	85.4	82.5	96.1	94.3
18. PLASTIC LIMIT	43.8	31.7	38.6	40.9	40.3
19. PLASTICITY INDEX	56.6	53.7	43.9	55.2	54.0
20. LIQUIDITY INDEX	178	196	223	174	194
21. CONSISTENCY INDEX FROM LL	0.81	0.68	0.65	0.77	0.76
22. COMPRESSIVE STRENGTH NATURAL (kg/cm²) REHOLD (kg/cm²)	--	--	--	--	--
23. COMESSION NATURAL (kg/cm²) REHOLD (kg/cm²)	19.9	26.2	31.3	31.5	42.1
24. SENSITIVITY	7.3	6.8	5.7	5.5	6.0
25. ANGLE OF INTERNAL FRICTION (°)	--	--	--	--	--
26. ACTIVITY	1.0	0.8	0.7	0.9	0.7
27. MODULUS OF ELASTICITY	--	--	--	--	--
28. SWELL (%)	--	--	--	--	--
29. <i>REMARKS</i>	The stratigraphic break observed in previous samples is not apparent here. Two color zones occur in this sample. The top 19" is mottled dark yellowish brown and the remainder of the core is uniform pale yellowish brown. Mottling occurs extensively at the top of the sample and decreases with depth in the dark yellowish brown zone. Possible thin horizontal dark brown layers towards the bottom of this zone. The sample is a uniform clay with no visible clastic grains. No shells or indication of organic growth present.				

**CORE ANALYSIS SUMMARY SHEET**  
**ENGINEERING PROPERTIES**

ANALYZED BY NCEL

DATE 5 Nov. 1963

NAVOCANO-C-319739 (Ex-143)

1. CONCRETE NO.	0-5	4. SAMPLE NO.	0.5 - 1/2 B	7. TYPE CORE	KULLER-ELASTIC
2. LATITUDE	37° 45.6' N	1. DATE TAKEN (DD, MM, YEAR)	12 / 5 / 63	8. CORE LENGTH (cm)	64
3. LONGITUDE	127° 35.0' W	6. WATER DEPTH (m)	9.572	9. CORER PENETRATION (cm) NOT RECORDED	
4. SUBSAMPLE DEPTH IN CORE (cm)	0.0-7.6	5.2-22.9	30.5-32.1	45.7-52.3	
11. WET UNIT WEIGHT (g/cm <sup>3</sup> )	1.340	1.456	1.460	1.616	
12. SPECIFIC GRAVITY OF SOLIDS	2.754	2.694	2.694	2.659	
13. WATER CONTENT (% dry weight)	168.9	121.2	135.9	79.2	
14. VOID RATIO	4.525	3.032	3.348	1.950	
15. SATURATED VOID RATIO	4.652	3.253	3.661	2.06	
16. POROSITY (%)	81.9	75.5	77.0	66.1	
21. LIQUID LIMIT	35.9	82.6	94.7	49.0	
18. PLASTIC LIMIT	37.2	30.5	32.0	26.0	
19. PLASTICITY INDEX	58.7	52.1	62.7	23.0	
20. LIQUIDITY INDEX	2.24	1.74	1.66	2.51	
21. COMPRESSION INDEX FROM LL	0.77	0.66	0.76	0.35	
22. COMPRESSIVE STRENGTH NATURAL (kg/cm <sup>2</sup> )	—	—	—	—	
REBOLD (kg/cm <sup>2</sup> )	—	—	—	—	
23. COHESION NATURAL (kg/cm <sup>2</sup> )	8.79	21.2	26.2	23.6	
REBOLD (kg/cm <sup>2</sup> )	2.11	5.20	3.87	3.66	
24. SENSITIVITY	4.2	4.1	6.8	6.4	
25. ANGLE OF INTERNAL FRICTION (°)	—	—	—	—	
26. ACTIVITY	1.0	1.2	1.3	1.4	
27. MODULUS OF ELASTICITY	—	—	—	—	
28. SLIP (S)	—	—	—	—	
29. REMARKS This sample has several layers. In increasing order of depth, they are dark yellowish brown silty clay (13"), light olive gray silty clay (5"), grayish olive silt (4 1/2"), dark yellowish brown silty clay (1"), and light olive gray silty clay for the remainder of the core. Mottling occurs only in the dark yellowish brown zones. The silt layer appears to have been deposited during a very disturbed state of the ocean bottom. No shells or organic growth visible.					223

CORE ANALYSIS SUMMARY SHEET  
ENGINEERING PROPERTIES

ANALYZED BY NCEL

DATE 8 Nov. 1963

NAVOCASUS-100729 (S-103)

	Sample No.	BS-138	1. TYPE CORE KILL ENGINEERED
1. CRUISE NO. D-5			
2. LATITUDE 37° 47.3' N	3. DATE TAKEN (Day, Month, Year) 12/5/63	4. CORE LENGTH (cm) 60	
3. LONGITUDE 127° 06.0' W	5. WATER DEPTH (m) 44.26	6. CORE PENETRATION NOT RECEIVED	
10. SUBSAMPLE DEPTH IN CORE (cm)	0.0-7.6 [5.2-22.9] 10.5-38.1 45.7-55.1		
11. WET UNIT WEIGHT (g/cm³)	1.220	1.325	1.488
12. SPECIFIC GRAVITY OF SOLIDS	2.843	2.774	2.814
13. WATER CONTENT (% dry weight)	182.0	145.1	198.8 129.6
14. VOD RATIO	5.410	3.762	5.155 3.348
15. SATURATED VOID RATIO	5.774	4.025	5.411 3.647
16. POREOSITY (%)	84.4	79.0	83.7 77.0
17. LIQUID LIMIT	101.1	92.1	105.5 94.8
18. PLASTIC LIMIT	57.2	45.6	38.1 37.5
19. PLASTICITY INDEX	49.9	46.5	67.4 57.3
20. LIQUIDITY INDEX	26.2	21.4	23.8 16.1
21. COMPRESSIBILITY INDEX (FCM LL)	0.82	0.74	0.86 0.76
22. COMPRESSIVE STRENGTH NATURAL (g/cm²)	—	—	—
REBOLD (g/cm²)	—	—	—
23. CONECTION NATURAL (g/cm²)	8.08	20.3	19.1 43.2
REBOLD (g/cm²)	1.62	5.06	2.60 12.9
24. SENSITIVITY	5.0	4.0	7.3 3.3
25. ANGLE OF INTERNAL FRICTION (°)	—	—	—
ACTIVITY	0.8	0.8	1.7 1.1
ECOLOGY OF CLASTICITY	—	—	—
SWP (ft)	—	—	—

29. RESULTS The stratigraphic break occurs at the 10" depth. Upper portion of sample is mottled light to dark yellowish brown clay. Lower portion is fairly uniform greenish gray silty clay. Bottom 4" of sample contain a series of horizontal layers 1-5 cm thick of dark greenish gray silt. Top of sample appears relatively soft. Black mottling occurs between liner and sample; possibly the result of organic growth. No shells observed.

○ CORE ANALYSIS SUMMARY SHEET  
ENGINEERING PROPERTIES

ANALYZED BY NCEL

DATE 7 Nov. 1963

NAVOCANDO-COR-10073 (Rev. 1-63)

TEST NO.	SAMPLE NO.	DATE TAKEN (DAY, MONTH, YEAR)	TYPE CORE	KULL-EYNEKE'S
			8. CORE LENGTH (cm)	9. CORE PENETRATION (cm) NOT IN CORER
1. TEST NO. D-5	BS - 148	13 / 11 / 63	6.2	
2. DATE TAKEN 37 • 30.5 • NY				
3. TEST NO. 126 • 49.4 • NY				
4. SUBSAMPLE DEPTH IN CORE (cm)	0.0-7.6	52.228	30.5-38.1	45.7-53.5
5. WET UNIT WEIGHT (g/cm <sup>3</sup> )	1.226	1.350	1.446	1.405
6. SPECIFIC GRAVITY OF SOLIDS	2.720	2.813	2.750	2.734
7. WATER CONTENT (% dry weight)	157.5	130.6	115.4	137.1
8. VOLUME RATIO	4.263	3.808	3.098	3.608
9. SATURATED VOID RATIO	3.740	3.674	3.178	3.745
10. PLASTICITY (%)	81.0	79.2	75.6	78.3
11. LIQUID LIMIT	118.2	107.0	90.7	105.5
12. PLASTIC LIMIT	43.5	38.7	30.1	36.2
13. PLASTICITY INDEX	74.7	68.3	60.6	69.3
14. LIQUIDITY INDEX	126	135	141	146
15. COMPRESSION INDEX FROM LT	0.97	0.87	0.73	0.86
16. COMPRESSIVE STRENGTH NATURAL (g/cm <sup>2</sup> ) RELOAD (g/cm <sup>2</sup> )	—	—	—	—
17. COHESION NATURAL (g/cm <sup>2</sup> ) RELOAD (g/cm <sup>2</sup> )	50.5	52.4	94.7	55.9
18. SENSITIVITY	3.5	3.4	4.1	4.6
19. ANGLE OF INTERNAL FRICTION (°)	—	—	—	—
20. ACTIVITY	1.3	1.2	1.2	1.2
21. MODULUS OF ELASTICITY	—	—	—	—
22. SWELL (%)	—	—	—	—
23. REMARKS This sample is a uniform silty clay. The dark yellowish brown zone is 11" thick in this core. Below this depth are typical greenish sediments. Mottling occurs extensively in the brown zone and moderately on the outside of the lower greenish gray zone. Black mottling in the lower portions may be due to organic growth. Some dessication present between liner and sample in the upper portion. No shells visible.				

**CORE ANALYSIS SUMMARY SHEET**  
**ENGINEERING PROPERTIES**

NCEL  
ANALYZED BY \_\_\_\_\_  
DATE 6 Nov. 1963

**HOLOCENE-EARLY TERTIARY (Era 1-3)**

		TYPE NO. BS-15-B		KULLENBERG PISTON	
		DATE TAKEN (Day, Month, Year)	1-7 / 5 / 63	8. CORE LENGTH (cm)	105
		5. WATER DEPTH (m)	46.00	9. CORER PENETRATION (cm) NOT RECORDED	
1. CRUISE NO.	D-5	0.0 7.6	52-225 38.5-38.1	57-53.3 61.0-68.0	76.2-83.6 74-92.1
2. LATITUDE	37° 0' 26.2" N	1.377	1.371	1.404	1.356 1.748
3. LONGITUDE	127° 0' 48.1" W	2.662	2.728	2.707	2.723 2.732
4. SUBSAMPLE DEPTH IN CORE (cm)		1.54.3	1.57.1	14.3-4	14.9-3 90.1 53.5
5. VET UNIT WEIGHT (g/cm <sup>3</sup> )		3.926	4.076	2.831	3.695 3.762 1.358
6. SPECIFIC GRAVITY OF SOLIDS		4.121	4.254	3.037	3.93.2 4.03.5 2.40.5 1.43.2
7. WATER CONTENT (%) dry weight)		79.7	80.3	73.9	78.7 79.0 73.3 53.3
8. PLASTIC LIMIT		89.6	86.3	77.4	94.5 103.1 53.8 36.0
9. LIQUID LIMIT		34.4	31.8	28.7	37.6 35.1 N.P. N.P.
10. PLASTIC LIMIT		55.2	54.5	48.7	56.9 67.0 N.P. N.P.
11. PLASTICITY INDEX		21.8	23.0	17.2	18.6 16.9 — —
12. LIQUIDITY INDEX		0.72	0.68	0.60	0.76 0.84 0.40 0.23
13. COMPRESSION INDEX FROM LL		—	—	—	— —
14. COMPRESSIVE STRENGTH NATURAL	(kg/cm <sup>2</sup> )	—	—	—	— —
15. COMPRESSIVE STRENGTH REHOLD	(kg/cm <sup>2</sup> )	—	—	—	— —
16. COHESION REHOLD	(kg/cm <sup>2</sup> )	5.55	4.99	30.2	2.31 16.4 15.1 57.2
17. SENSITIVITY	NATURAL	1.83	2.53	6.59	6.47 6.26 2.32 4.57
18. ANGLE OF INTERNAL FRICTION (°)	REHOLD	3.0	2.0	4.4	3.6 2.6 6.5 12.5
19. ACTIVITY	—	—	—	—	— —
20. MODULUS OF ELASTICITY	—	—	—	—	— —
21. SWAP (%)	—	—	—	—	— —
22. REMARKS	Sample is generally a greenish gray clay with two zones of silt. Half of sample in vertical direction				
23. REMARKS	Clay layers of pale olive (13"-17") dark brown				
24. REMARKS	is dark greenish gray silt at depths of 11"-13" and 33"-39". Clay layers of pale olive (13"-17") occur in sample. Horizontal layers of water 1/2" thick present at 10"-27"				

25. REMARKS

26. ACTIVITY

27. MODULUS OF ELASTICITY

28. SWAP (%)

29. REMARKS

30. REMARKS

**CORE ANALYSIS SUMMARY SHEET**  
**ENGINEERING PROPERTIES**

ANALYZED BY NCEL

DATE 8 Nov., 1963

TEST NUMBER	TEST	TEST DATA		TEST NUMBER	TEST	TEST DATA	
		TEST NO.	TEST			TEST NO.	TEST
1. CRUISE NO.	D-5	4. SAMPLE NO.	B5-16B	7. TYPE CORE	KULLENBERG	10. CORE LENGTH (cm)	32
2. LATITUDE	37° 25' N	5. DATE TAKEN (Day, Month, Year)	14/5/63	8. CORE PENETRATION (cm) NOT RECORDED			
3. LONGITUDE	128° 00' W	6. WATER DISPL (ml)	4605				
10. SUBSAMPLE DEPTH IN CORE (cm)	0.0-7.0	11. WET UNIT WEIGHT (g/cm³)	1.291	12. SPECIFIC GRAVITY OF SOLIDS	2.782	13. WATER CONTENT (% dry weight)	1.530 / 1.569
14. VOID RATIO		15. SATURATED VOID RATIO	1.28.8	16. PLASTICITY (3)	79.8	17. LIQUID LIMIT	129.0 / 102.5
18. PLASTIC LIMIT		19. PLASTICITY INDEX	3.950	20. LIQUID INDEX	75.7	21. COMPRESSION INDEX FROM LL	3.11.5 / 2.509
22. COMPRESSIVE STRENGTH NATURAL	0.72	23. COHESION	3.582	24. SENSITIVITY	52.2	25. ANGLE OF INTERNAL FRICTION (°)	25.4 / 18.4
REHOLD	(0/cm²)	NATURAL	19.5	26. ACTIVITY	2.4	27. MODULUS OF ELASTICITY	0.72 / 0.52 / 0.54
	(0/cm²)	REHOLD	19/cm²		—	28. STUPE (2)	— / — / —
					—	29. RESULTS	Upper 7 1/2" is yellowish light to dark yellowish brown uniform clay. Below the stratigraphic break which is on a horizontal plane is uniform grayish olive silty clay. Black mottling occurs on outside of sample, possibly due to organic growth. Some desiccation near top of core. No shells visible.

**GEOTECHNICAL SUMMARY SHEET**  
**ENGINEERING PROPERTIES**

NCEL

ANALYST \_\_\_\_\_  
DATE 15 Nov. 1963

NAVOCANO-CALUBANG (Ex-1-5)

1. COURCE NO.	D-5	4. SAMPLE NO.	B5-77B	7. TYPE CORER	KULLENBERG
2. LATITUDE	37° 07' N	5. DATE TAKEN (day, month, year)	15/5/63	8. CORE LENGTH (cm)	170
3. LONGITUDE	23° 05'.8' E	6. WATER DEPTH (m)	45.72	9. CORER PENETRATION (cm) NOT RECORDED	
10. SUBSAMPLE DEPTH IN CORE (cm)	0.0-7.6	5.2-22.5	30.5-38.1	45.7-53.3	61.0-65.6
11. WET UNIT WEIGHT (g/cm <sup>3</sup> )	1.351	1.533	1.475	1.511	1.501
12. SPECIFIC GRAVITY OF SOLIDS	2.713	2.704	2.694	2.713	2.691
13. WATER CONTENT (% dry weight)	152.1	91.3	130.1	105.3	124.6
14. VOID RATIO	4.051	2.628	3.202	2.690	3.049
15. SATURATED VOID RATIO	4.126	2.469	3.505	2.862	3.369
16. POSOSITY (%)	80.2	69.4	76.2	72.9	75.3
17. LIQUID LIMIT	89.8	53.1	52.3	64.7	79.4
18. PLASTIC LIMIT	39.4	25.6	31.2	27.6	28.6
19. PLASTICITY INDEX	50.4	27.5	21.1	37.1	50.3
20. LIQUIDITY INDEX	2.24	2.39	4.66	2.09	1.89
21. COMPRESSION INDEX FROM LL	0.72	0.39	0.38	0.50	0.62
22. COMPRESSIVE STRENGTH NATURAL REHOLD (g/cm <sup>2</sup> )	-	-	-	0.37	0.68
23. COHESION NATURAL REHOLD (g/cm <sup>2</sup> )	11.3	16.5	32.0	23.3	39.6
24. SENSITIVITY	2.8	4.3	4.4	4.9	5.2
25. ANGLE OF INTERNAL FRICTION (θ)	-	-	-	-	-
26. ACTIVITY	0.8	0.6	0.3	0.6	0.7
27. MODULUS OF ELASTICITY	-	-	-	-	-
28. SWELL (%)	-	-	-	-	-
29. REMARKS Color - Various shades of yellow olive. Structures - Bedding most distinct where pulses of darker, well-beded silty material were deposited; these silty beds are 1-5 cm thick, and are more resistant than the rest of the sediments, being bowed upwards as the corer passed. The lowest and thickest of these was even rotated slightly allowing finer and wetter material from below to come up the liner. These silty beds are quite compacted and have considerably less induration than the surrounding clay.					

CORE ANALYSIS SURVEY STATION  
ENGINEERING PROPERTIES

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APPLIED NCERT

DATE 19 Nov. 1963

1. CRUISE NO.	2. LATITUDE	3. LONGITUDE	4. SAMPLE NO.	5. DATE TAKEN (Day, Month Year)	6. WATER DEPTH (m)	7. TYPE CORER	8. CORE LENGTH (cm)	9. CORE PENETRATION (cm) NOT REACHING
2. LATITUDE 37° 0' 06.6": N	6. WATER DEPTH (m)	15/5 / 6.3	4.000	10-7-2	15.2 - 22.0	30.5 - 38.1	155.7 - 53.3	14.0 - 6.83
3. LONGITUDE 53° 7' 0": W	5. DATE TAKEN (Day, Month Year)	15/5 / 6.3	4.000	1.371	1.312	1.434	1.514	1.503
4. SAMPLE NO.	5. DATE TAKEN (Day, Month Year)	6. WATER DEPTH (m)	7. TYPE CORER	8. CORE LENGTH (cm)	9. CORE PENETRATION (cm) NOT REACHING			
5. CORE LENGTH (cm)	6. WATER DEPTH (m)	7. TYPE CORER	8. CORE LENGTH (cm)	9. CORE PENETRATION (cm) NOT REACHING				
11. WET UNIT WEIGHT (g/cm³)	12. SPECIFIC GRAVITY OF SOLIDS	13. WATER CONTENT (% dry weight)	14. VOID RATIO	15. SATURATED VOID RATIO	16. POROSITY (%)	17. LIQUID LIMIT	18. PLASTIC LIMIT	19. PLASTICITY INDEX
27. COHESION	28. ACTIVITY	29. SENSITIVITY	30. ANGLE OF INTERNAL FRICTION (°)	31. COHESION	32. COMPRESSION INDEX FROM LL	33. COMPRESSIVE STRENGTH NATURAL	34. SENSITIVITY	35. ACTIVITY
36. ECOLOGUS OF ELASTICITY	37. SLUMP (cm)							

29. Features Color - Overall dusky yellow (GSA, 5Y 6/4), with bands and mottles light olive gray (5Y 5/2) to olive gray (5Y 3/2). Structures - Bedding - seldom distinct, essentially horizontal as shown by burrowed but recognizable organically stained layers, especially in 7.6-15.2 cm interval; silty .6 cm bed at 162 cm. Mottles - in intermit-

CORE ANALYSES SUMMARY SHEET  
ENGINEERING PROPERTIES

.NWCCHD-3125 (Rev. 10-63)

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on 12 Nov. 1963

CRUISE NO.	D-5	4. SAMPLE NO.	BS - 18B	7. TYPE CORE KULLENBERG
CO-ALTITUDE	37° 0' 06". N	5. DATE TAKEN (day, month, year)	15/5/63	8. CORE LENGTH (cm)
LONGITUDE	127° 53' 07". W	6. WATER DEPTH (m)	46.00	9. CORE PENETRATION (cm) NOT RECORDED
10. SUBSTRATE DEPTH IN CORE (cm)	183.750	11. SET UNIT WEIGHT 19.125	—	
12. SPECIFIC GRAVITY OF SOLIDS	2.797	13. WATER CONTENT (% dry weight)	110.6	
14. VOID RATIO	2.953	15. SATURATED VOID RATIO	3.093	
16. PEGOSITY (S)	72.7	17. LIQUID LIMIT	86.1	
18. PLASTIC LIMIT	26.7	19. PLASTICITY INDEX	49.4	
20. LIQUIDITY INDEX	150	21. COMPRESSION INDEX FROM LL	0.68	
22. COMPRESSIVE STRENGTH NATURAL (g/cm <sup>2</sup> )	—	23. COHESION NATURAL (g/cm <sup>2</sup> )	57.2	
RECORD (g/cm <sup>2</sup> )	—	RECORD (g/cm <sup>2</sup> )	11.7	
24. SENSITIVITY	4.4	25. ANGLE OF INTERNAL FRICTION (°)	—	
26. ACTIVITY	0.7	27. MODULUS OF ELASTICITY	—	
28. STRENGTH (SI)	—			

**CORE ANALYSIS SUMMARY SHEET**  
**ENGINEERING PROPERTIES**

ANALYZED BY NCEL

DATE 3 Jan. 1964

NAVOCANO-D-210718-8 (Rev. 1-63)

1. CRUISE NO.	2. LATITUDE	3. LONGITUDE	4. SAMPLE NO.	5. DATE TAKEN (DAY, Month, Year)	6. WATER DEPTH (m)	7. TYPE CORER	8. CORE LENGTH (cm)	9. CORER PENETRATION (cm) / NOT RECORDED	10. SUBSAMPLE DEPTH IN CORE (cm)	11. WET UNIT WEIGHT (g/cm <sup>3</sup> )	12. SPECIFIC GRAVITY OF SOLIDS	13. WATER CONTENT (% dry weight)	14. VOID RATIO	15. SATURATED VOID RATIO	16. POROSITY (%)	17. LIQUID LIMIT	18. PLASTIC LIMIT	19. PLASTICITY INDEX	20. LIQUIDITY INDEX	21. COMPRESSION INDEX FROM LL	22. COMPRESSIVE STRENGTH NATURAL (g/cm <sup>2</sup> )	23. COHESION NATURAL (g/cm <sup>2</sup> )	24. SENSITIVITY	25. ANGLE OF INTERNAL FRICTION (°)	26. ACTIVITY	27. MODULUS OF ELASTICITY	28. SUMP (%)	29. REMARKS
D - 5	37° 07' S	079° 11'	35-9B	16/5/63	4.5/17				0.0-7.6	15.2-22.9	30.5-38.1	45.7-53.3	6.0-6.5	76.2-83.8	91.4-99.1	107-114	122-130	137-145	152-160	168-175								
									1.328	1.379	1.323	1.305	1.378	1.326	1.352	1.306	1.343	1.335	1.335	1.365	1.348							
									2.740	2.686	2.694	2.712	2.672	2.689	2.677	2.693	2.749	2.765	2.746	2.726								
									1.535	1.492	1.69.6	1.789	1.05.5	1.20.2	1.21.4	1.71.6	1.45.8	1.46.3	1.37.4	1.37.8								
									4.000	4.076	4.495	4.780	2.984	3.274	3.386	4.587	4.025	4.102	3.785	3.762								
									4.206	4.008	4.569	4.852	2.819	3.232	3.250	4.621	4.008	4.045	3.773	3.729								
									80.0	80.3	81.8	82.7	74.9	76.6	77.2	82.1	80.1	80.4	79.1	79.0								
									80.1	111.4	122.5	108.4	80.5	88.9	87.5	107.9	126.8	130.1	153.8	107.5								
									30.2	30.8	30.9	29.8	26.9	26.1	25.7	34.5	31.1	32.5	31.8	32.9								
									49.9	80.6	91.6	78.6	53.6	62.8	61.8	73.4	95.7	97.6	122.0	74.6								
									247	147	151	190	147	150	155	187	120	117	87	141								
									0.63	0.91	1.02	0.88	0.63	0.71	0.70	0.88	1.05	1.08	1.30	0.88								
									-	-	-	-	-	-	-	-	-	-	-	-								
									-	-	-	-	-	-	-	-	-	-	-	-								
									14.5	15.2	16.9	26.1	29.9	37.0	191	14.3	87.5	73.0	24.9	21.9								
									3.16	3.94	3.16	4.78	5.06	8.86	5.55	4.08	21.3	17.2	7.31	7.52								
									4.6	3.9	5.3	5.5	5.9	4.2	3.4	3.5	4.1	4.2	3.4	2.9								
									-	-	-	-	-	-	-	-	-	-	-	-								
									1.0	1.2	1.4	1.1	1.1	1.3	1.2	1.2	1.3	1.4	1.7	1.1								
									-	-	-	-	-	-	-	-	-	-	-	-								
									-	-	-	-	-	-	-	-	-	-	-	-								
									-	-	-	-	-	-	-	-	-	-	-	-								

29. REMARKS Color - Dominantly olive gray (GY 5/2-5Y 3/2); some yellow or brownish zones near top. Odor - H<sub>2</sub>S; strong in dark gray zones. Sediments - Dominant grain size in clay range. Many silty zones show better bedding, less moisture, and are firmer. Bedding - Generally distinct, few mottles, better in silty zones; gray organic-rich layers along some bedding planes. Beds .5 to 6 cm thick before compaction. Structures - Two zones (at 30" and 66") within silty layers contained very resistant knots or concretions of sediment, possibly phosphatic nodules (cont'd)

**CONCRETE ANALYSIS SUMMARY SHEET**  
**ENGINEERING PROPERTIES**

NCEL

ANALYZED BY

DATE 3 Jun. 1964

MANOUSANO-EN-1970-5 (Rev 1-53)

1. CONCRETE NO.	D-5	4. SAMPLE NO.	B5-19B	7. TYPE CORE	DRILLING
2. DIA. INCHES	3.7 ± 0.73	5. DATE TAKEN (Day, month year)	16/5/63	8. CORE LENGTH (cm)	213
3. LENGTH	127 ± 07.9 M	6. TAKER DEPTH (m)	95.17	9. CORE PENETRATION (cm) NOT RECORDED	
10. SUBSAMPLE DEPTH IN CORE (cm)	153-190	10.20-206			
11. WET UNIT WEIGHT (g/cm <sup>3</sup> )	1.349	1.343			
12. SPECIFIC GRAVITY OF SOLIDS	2.722	2.711			
13. WATER CONTENT (% dry weight)	138.7	138.4			
14. VOID RATIO	3.808	3.808			
15. SATURATED VOID RATIO	3.775	3.752			
16. PORESITY (%)	79.2	79.2			
17. LIQUID LIMIT	110.1	109.0			
18. PLASTIC LIMIT	32.4	32.4			
19. PLASTICITY INDEX	77.7	76.6			
20. LIQUIDITY INDEX	1.37	1.38			
21. COMPRESSION INDEX FROM LL	0.90	0.89			
22. COMPRESSIVE STRENGTH NATURAL REHOLD	(kg/cm <sup>2</sup> )	--	--		
23. COMPRESSION NATURAL REHOLD	(kg/cm <sup>2</sup> )	29.2	28.3		
24. SENSITIVITY		2.85	2.73		
25. ANGLE OF INTERNAL FRICTION (°)		3.3	3.7		
26. ACTIVITY		—	—		
27. MODULUS OF ELASTICITY		1.0	1.2		
28. STUSS? (%)		—	—		
29. REMARKS	concentrated along bedding planes in situ or at surface.				

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**CORE ANALYSIS SUMMARY SHEET**  
**ENGINEERING PROPERTIES**

ANALYZED BY N.C.E.L.

NAVOCARD NO. 100/103 (Rev. 1-51)

CRUISE NO. D-5

DATE 19 Dec 53

4. SAMPLE NO.	5. DATE TAKEN (Date, month, year)	6. CORE LENGTH (cm)	7. TYPE CORE	8. DRY WEIGHT	9. CORE PENETRATION (cm)	10. NOT RECORDED
4. SAMPLE NO.	BS-20/B	17/5/63				
5. DATE TAKEN	(Date, month, year)	44.62				
6. CORE LENGTH (cm)						
7. DRY WEIGHT (g/cm³)						
8. SPECIFIC GRAVITY OF SOLIDS	2.707	2.651	2.668	2.670	2.681	2.666
9. WATER CONTENT (% dry weight)	143.7	142.6	135.4	155.7	103.2	48.3
10. Voids Ratio	3.759	4.000	3.587	4.181	2.774	1.309
11. SATURATED VOID RATIO	3.890	3.966	3.612	4.157	2.767	1.288
12. PLASTICITY (S)	78.9	82.0	78.2	90.7	73.5	56.7
13. LIQUID LIMIT	85.0	106.3	112.2	107.3	73.3	48.7
14. PLASTIC LIMIT	36.7	35.1	35.8	29.2	25.5	N.P
15. PLASTICITY INDEX	48.3	71.2	76.4	72.1	47.8	N.P
16. LIQUIDITY INDEX	222	161	130	162	163	-
17. COMPRESSION INDEX FROM LI	0.68	0.86	0.92	0.87	0.57	0.35
18. COMPRESSIVE STRENGTH NATURAL REFOLD	(g/cm²)	-	-	-	-	-
19. COMPRESSIVE STRENGTH NATURAL REFOLD	(g/cm²)	-	-	-	-	-
20. COHESION	13.3	40.1	25.2	21.9	48.4	37.6
21. ANGLE OF INTERNAL FRICTION (φ)	5.23	6.47	10.7	5.69	12.8	8.01
22. SENSITIVITY	4.1	6.2	3.3	3.8	3.8	4.7
23. ACTIVITY	0.9	1.1	1.3	1.3	1.0	-
24. MODULUS OF ELASTICITY	-	-	-	-	-	-
25. STRENGTH (S)	-	-	-	-	-	-
26. REMARKS	Color grayish olive (10Y 4/2). Core quite short. Mostly homogeneous silty clays with silty zones evident at top and base. Bedding indistinct except in these coarser zones. Bedding isn't all horizontal, but may have been disturbed by corer in places. Notching not common; more easily seen in siltier zones. No large fragments of rock or shell evident.					

**CORE ANALYSIS SUMMARY SHEET**  
**ENGINEERING PROPERTIES**

ANALYZED BY NCEL

DATE 18 Dec 63

NAVOCANO-EP-31678-8 (Rev. 1-2)

1. CRUISE NO.	D-5	4. SAMPLE NO.	B5	215	5. DATE TAKEN (DAY MONTH YEAR)	17 15 63	6. CORE LENGTH (cm)	102	7. 9. CORE PENETRATION (cm) AND RECORDED																														
2. LATITUDE	3.6 ° 43' 9" N	10. SUBSAMPLE DEPTH IN CORE (cm)	0.6-7.0	11. WATER DEPTH (m)	4.3/6	12. SPECIFIC GRAVITY OF SOLIDS	2.711	13. WATER CONTENT (% dry weight)	14.93	14. VES. UNIT WEIGHT (g/cm³)	1.35	15. VOID RATIO	4.155	16. SATURATED VOID RATIO	4.046	17. LIQUID LIMIT	99.1	18. PLASTIC LIMIT	33.5	19. PLASTICITY INDEX	65.6	20. LIQUIDITY INDEX	177	21. COMPRESSION INDEX FROM II	0.80	22. COMPRESSIVE STRENGTH NATURAL (kg/cm²)	—	23. COHESION NATURAL (kg/cm²)	21.4	24. SENSITIVITY	3.4	25. ANGLE OF INTERNAL FRICTION (°)	—	26. ACTIVITY	1.1	27. MODULUS OF ELASTICITY	—	28. SWAMP (%)	—
3. LONGITUDE	126 ° 54' 5" E	10. SUBSAMPLE DEPTH IN CORE (cm)	0.6-7.0	11. WATER DEPTH (m)	4.3/6	12. SPECIFIC GRAVITY OF SOLIDS	2.660	13. WATER CONTENT (% dry weight)	159.2	14. VES. UNIT WEIGHT (g/cm³)	1.307	15. VOID RATIO	4.155	16. SATURATED VOID RATIO	4.035	17. LIQUID LIMIT	105.0	18. PLASTIC LIMIT	34.9	19. PLASTICITY INDEX	70.1	20. LIQUIDITY INDEX	177	21. COMPRESSION INDEX FROM II	0.86	22. COMPRESSIVE STRENGTH NATURAL (kg/cm²)	—	23. COHESION NATURAL (kg/cm²)	36.0	24. SENSITIVITY	4.1	25. ANGLE OF INTERNAL FRICTION (°)	—	26. ACTIVITY	1.1	27. MODULUS OF ELASTICITY	—	28. SWAMP (%)	—
10. SUBSAMPLE DEPTH IN CORE (cm)	0.6-7.0	11. WATER DEPTH (m)	4.3/6	12. SPECIFIC GRAVITY OF SOLIDS	2.660	13. WATER CONTENT (% dry weight)	159.2	14. VES. UNIT WEIGHT (g/cm³)	1.307	15. VOID RATIO	4.155	16. SATURATED VOID RATIO	4.035	17. LIQUID LIMIT	105.0	18. PLASTIC LIMIT	34.9	19. PLASTICITY INDEX	70.1	20. LIQUIDITY INDEX	177	21. COMPRESSION INDEX FROM II	0.86	22. COMPRESSIVE STRENGTH NATURAL (kg/cm²)	—	23. COHESION NATURAL (kg/cm²)	36.0	24. SENSITIVITY	4.1	25. ANGLE OF INTERNAL FRICTION (°)	—	26. ACTIVITY	1.1	27. MODULUS OF ELASTICITY	—	28. SWAMP (%)	—		

29. REMARKS Color variable, generally shades of olive gray. Color varies due to changes from bed to bed, and also due to mottling in upper part. Distinctive beds .5- > 5 cm. thick, but most indistinct due to biogenic churning, especially near top. Grain size variable, but no trend observed up or down. No evidence of rocks or shells. Some voids may represent tubes for escape of pore water as sediment is accumulated and compacts underlying layers.

**CORE ANALYSIS SUMMARY SHEET**  
**ENGINEERING PROPERTIES**

NOVOCANNO-BP-1157A-B (Rev. 1-63)

NAME: W.H.

DATE: 20 Dec 64

4. SAMPLE NO. <i>D-5</i>	5. DATE TAKEN (DDMMYY) Month Year 11/17/63	6. WATER DEPTH (m) 4.535	7. TYPE CORE <i>B5 - 228</i>	8. CORE LENGTH (cm) 22.4
9. CORER PENETRATION (cm) 107.130	10. DRY UNIT WEIGHT (g/cm <sup>3</sup> ) 1.374	11. WET UNIT WEIGHT (g/cm <sup>3</sup> ) 1.402	12. SPECIFIC GRAVITY OF SOLIDS 1.365	13. WATER CONTENT (% dry weight) 1.337
14. VOID RATIO 1.464	15. SATURATED VOID RATIO 1.420	16. POROSITY (%) 8.7	17. LIQUID LIMIT 92.6	18. PLASTIC LIMIT 38.0
19. PLASTICITY INDEX 78.4	20. LIQUIDITY INDEX 177	21. COMPRESSION INDEX FROM LL 0.63	22. COMPRESSIVE STRENGTH NATURAL (kg/cm <sup>2</sup> ) REHOLD (kg/cm <sup>2</sup> )	23. COHESION NATURAL (kg/cm <sup>2</sup> ) REHOLD (kg/cm <sup>2</sup> )
24. SENSITIVITY —	25. ANGLE OF INTERNAL FRICTION (°) 1.2	26. ACTIVITY —	27. MODULUS OF ELASTICITY —	28. SWELL (%) —
29. REMARKS General color shades of olive gray. More desiccated sections usually lighter. Silty zones become desiccated quicker. Beds .5 to several cm. thick, and discernable by color and texture differences. Bedding Planes often destroyed by burrowing. Burrows sometimes solitary, but usually concentrated along certain horizons. Darker horizons, possibly containing more organic matter, often intensely burrowed. No noticeable trend in color or texture changes along length of core--random. No shells or	30. DENSITY 1.35	31. DENSITY 1.35	32. DENSITY 1.35	33. DENSITY 1.35

**CORE ANALYSIS SUMMARY SHEET**  
**ENGINEERING PROPERTIES**

ANALYST IN NCEL

MANOGLANO-EP-1987-3 (E&I-3)

DATE 20 Dec 63

1. CRUISE NO.	D - 5	4. SAMPLE NO.	B5 - 226	7. DRY SINTER EATING	8. FRICTION PENETRATION (cm) 10T RECORDED
2. LATITUDE	36° 41' N	5. DRY TESTED DRY, DRY, DRY	17/5/63	9. FRICTION PENETRATION (cm) 10T RECORDED	
3. LONGITUDE	127° 07' E	6. WATER GIRTH Lm	4.5 3.5		
4. SUBSAMPLE DEPTH IN CORE (cm)		16.3 / 90 / 198 - 206	21.3 - 22.1		
5. WET UNIT WEIGHT (g/cm <sup>3</sup> )		1.357	1.347	1.374	
6. SPECIFIC GRAVITY OF SOLIDS		2.625	2.697	2.662	
7. WATER CONTENT (% dry weight)		139.6	125.7	133.5	
8. VOID RATIO		3.739	3.525	3.566	
9. SATURATED VOID RATIO		3.748	3.390	3.580	
10. POROSITY (%)		75.9	77.9	76.1	
11. LIQUID LIMIT		94.7	108.6	109.9	
12. PLASTIC LIMIT		26.4	52.7	36.3	
13. PLASTICITY INDEX		68.3	55.9	73.6	
14. LIQUIDITY INDEX		16.6	13.1	13.2	
15. COMPRESSION INDEX FROM LL		0.76	0.89	0.90	
16. COMPRESSIVE STRENGTH NATURAL	(kg/cm <sup>2</sup> )	—	—	—	
17. REHOLD	(kg/cm <sup>2</sup> )	—	—	—	
18. COMPRESSION NATURAL	(kg/cm <sup>2</sup> )	64.2	33.8	45.8	
19. REHOLD	(kg/cm <sup>2</sup> )	11.2	8.23	12.0	
20. SENSITIVITY		5.7	4.1	3.8	
21. ANGLE OF INTERNAL FRICTION (°)		—	—	—	
22. ACTIVITY		1.0	0.8	1.0	
23. MODULUS OF ELASTICITY		—	—	—	
24. JUMP (ft)		—	—	—	
25. REMARKS		rocks evident.			

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**CORE ANALYSIS SUMMARY SHEET**  
**ENGINEERING PROPERTIES**

ANALYZED BY NCEI

DATE 30 Dec 63

NAVOCLEAN-EP-35739 (Rev. 10-63)

1. CRUISE NO.	D-5	4. SAMPLE NO.	35-23B	7. TYPE CORE	EWING
2. LATITUDE	36° 45.6' N	5. DATE TAKEN (GAL. mouth, year)	12/25/63	8. CORE LENGTH (cm)	175
3. LONGITUDE	22° 21.7' W	6. WATER DEPTH (m)	4897	9. CORE PENETRATION (cm) NOT RECORDED	
10. SUBSAMPLE DEPTH IN CORE (cm)	3.0-7.6	15.2-22.9	30.5-38.1	45.7-53.5	61.0-68.6
11. WET UNIT WEIGHT (g/cm <sup>3</sup> )	1.346	1.360	1.373	1.362	1.338
12. SPECIFIC GRAVITY OF SOLIDS	2.769	2.715	2.684	2.713	2.720
13. WATER CONTENT (g dry weight)	136.9	138.3	126.1	131.1	144.1
14. VOID RATIO	3.878	3.762	3.425	3.608	3.878
15. SATURATED VOID RATIO	3.791	3.755	3.385	3.557	3.920
16. POROSITY (%)	79.5	79.0	77.4	78.3	79.5
17. LIQUID LIMIT	91.9	87.7	112.3	106.4	98.7
18. PLASTIC LIMIT	39.0	38.4	30.4	34.2	34.9
19. PLASTICITY INDEX	59.1	53.5	57.3	78.1	71.5
20. LIQUIDITY INDEX	16.6	18.7	16.7	12.4	15.3
21. COMPRESSION INDEX FROM LL	17.9	0.74	0.70	0.92	0.86
22. COMPRESSIVE STRENGTH NATURAL RENOULD	(g/cm <sup>2</sup> )	—	—	—	—
23. COMPRESSION NATURAL RENOULD	(g/cm <sup>2</sup> )	30.7	28.6	15.0	42.8
24. SENSITIVITY	4.0	5.7	2.9	2.7	4.8
25. ANGLE OF INTERNAL FRICTION (°)	—	—	—	—	—
26. ACTIVITY	0.9	0.8	1.1	1.2	1.0
27. MODULUS OF ELASTICITY	—	—	—	—	—
28. SWELL (%)	—	—	—	—	—
29. REMARKS	Color variegated hues of gray, olive, brown and yellow. Dominantly shades of olive. Textures also varied, but dominantly in clay size; with some silty zones. Cannot see megascopically what causes color differences. Boundaries of beds irregular due to (1) mottling by animal burrows, and (2) color changes due to different chemical constituents of adjacent horizons. Bed several cm. thick. Organic matter apparently concentrated along some horizons producing dark, semi-continuous bands. No evidence of megoscopic shells or rocks. Color variation remarkable.				

**CORE ANALYSIS SUMMARY SHEET**  
**ENGINEERING PROPERTIES**

ANALYZED BY NCCL

NAVOCANO-OP-310710-8 (Rev. 1-63)

DATE 2 Jan 64

1. CORE NO.	D-5	4. SAMPLE NO.	85 - 248	7. TYPE CURE	ENRNING
2. LATITUDE	33° 50' S.	5. DATE TAKEN DAY, MONTH, YEAR	18/5/63	8. CORE LENGTH (cm)	225
3. LONGITUDE	27° 33' 8" W	6. WATER DEPTH (m)	46.09	9. CORE PENETRATION (cm) NOT RECORDED	
10. SUBSAMPLE DEPTH IN CORE (cm)	0.0-76	15.2-22.9	50.5-38.1	45.7-53.3	61.2-68.4
11. WET UNIT WEIGHT (g/cm³)	1.439	1.420	1.423	1.404	1.392
12. SPECIFIC GRAVITY OF SOLIDS	2.821	2.810	2.759	2.767	2.761
13. WATER CONTENT (% dry weight)	116.4	119.1	118.2	117.0	110.3
14. VOID RATIO	3.237	3.444	3.237	3.219	3.132
15. SATURATED VOID RATIO	3.284	3.347	3.261	3.237	3.045
16. DENSITY (g)	76.4	77.5	76.4	76.3	75.8
17. LIQUID LIMIT	95.3	91.5	88.9	94.9	87.8
18. PLASTIC LIMIT	44.1	30.4	32.3	29.6	31.0
19. PLASTICITY INDEX	51.2	61.1	56.6	65.3	58.2
20. LIQUIDITY INDEX	141	145	152	134	139
21. COMPRESSION INDEX FROM LL	2.76	0.74	0.71	0.77	0.70
22. COMPRESSIVE STRENGTH NATURAL RENOLO (kg/cm²)	—	—	—	—	—
23. COHESION NATURAL RENOLO (kg/cm²)	46.5	55.3	56.3	57.2	58.8
24. SENSITIVITY	2.8	5.9	6.0	5.2	5.9
25. ANGLE OF INTERNAL FRICTION (°)	—	—	—	—	—
26. ACTIVITY	0.8	0.9	0.8	0.9	0.8
27. MODULUS OF ELASTICITY	—	—	—	—	—
28. SUMP (%)	—	—	—	—	—
29. REMARKS Color:	Generally dusky yellow, with mottles and smears grading to moderate olive brown and olive gray.				

**Texture:** All sediment appears in clay size range. No distinctly coarser beds.

**Structure:** Little evidence of discrete beds. Darker zones and stringers aligned parallel to the horizontal probably along bedding surfaces, but subsequently disturbed. Mottles present throughout;

**CORE ANALYSIS SUMMARY SHEET**  
**ENGINEERING PROPERTIES**

ANALYZED BY NCEL

DATE 2 Jan 64

NAVOCANC-EP-2163/1964 (Rev. 1-63)

1. CRUISE NO.	D-5	4. SAMPLE NO.	355 - 243	7. TYPE CORE	ENGLISH
2. LATITUDE	36° 50' S.	5. DATE TAKEN (YR, MO, DAY, YEAR)	18/5/63	8. CORE LENGTH (cm)	206
3. LONGITUDE	27° 33' 8" W	6. WATER DEPTH (m.)	4509	9. CORE PENETRATION (cm) NOT EXCEEDED	
10. SUBSAMPLE DEPTH IN CORE (cm)		183/100/93/206			
11. WET UNIT WEIGHT (g/cm <sup>3</sup> )	1.400	1.403			
12. SPECIFIC GRAVITY OF SOLIDS	2.321	2.793			
13. WATER CONTENT (S dry weight)	111.0	112.1			
14. VOID RATIO	3.255	3.310			
15. SATURATED VOID RATIO	3.31	3.243			
16. POROSITY (%)	76.5	76.8			
17. LIQUID LIMIT	99.0	87.0			
18. PLASTIC LIMIT	31.3	29.6			
19. PLASTICITY INDEX	67.7	57.4			
20. LIQUIDITY INDEX	11.8	15.1			
21. COMPRESSION INDEX FROM LL	0.80	0.69			
22. COMPRESSIVE STRENGTH NATURAL REHOLD	19/cm <sup>2</sup>	—	—		
23. COHESION NATURAL REHOLD	19/cm <sup>2</sup>	48.3	39.9		
24. SENSITIVITY	4.2	3.2			
25. ANGLE OF INTERNAL FRICTION (°)	—	—			
26. ACTIVITY	0.9	0.8			
27. MODULUS OF ELASTICITY	—	—			
28. SUMM (S)	—	—			

18. REMARKS

some vague, others discrete. Mottles often overlapping forming churned zones. Mottles show up primarily due to color rather than texture changes. Their origin appears due to burrowing organisms. No distinct change in sedimentary regime apparent throughout length of core.

## CODE ANALYSIS SUMMARY SHEET

### ENGINEERING PROPERTIES

ENGLISH PROPER NAMES

ANALYSED BY NCEL

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29. L. L. L. L. L. L. General color is dusky yellow; mottles generally grayish olive to olive gray. No striking color

**Texture:** Rather homogeneous clay; no obvious structural differences. Changes, but color differences only.

**CORE ANALYSIS SUMMARY SHEET**  
**ENGINEERING PROPERTIES**

ENGINEERING PROPERTIES

ANALYSIS BY NCEI

7 Jan 64

1. NAVOCEANO NO. 1031	2. CRUISE NO.	3. DATE TAKEN	4. LENGTH (cm)	5. TYPE CORE	6. DIVING
11. CRUISE NO. 360	43.8	18/5/63	185	25B	2/3
12. LOCALITY	1270-601	13. SAMPLE NO.	14. DATE TAKEN	15. LENGTH (cm)	16. CORE PENETRATION (%) NOT BECO 00%
14. SAMPLE NO.	1270-601	15. DATE TAKEN	16. LENGTH (cm)	17. LENGTH (cm)	18. CORE PENETRATION (%) NOT BECO 00%
16. SAMPLE NO.	1270-601	17. LENGTH (cm)	18. LENGTH (cm)	19. LENGTH (cm)	20. LENGTH (cm)
18. LENGTH (cm)	120	19. LENGTH (cm)	120	20. LENGTH (cm)	120
21. SPECIFIC GRAVITY OF SOLIDS	2.814	22. SPECIFIC GRAVITY OF LIQUID	2.846	23. DENSITY (g/cm <sup>3</sup> )	—
24. DENSITY (g/cm <sup>3</sup> )	1.020	25. DENSITY (g/cm <sup>3</sup> )	1.053	26. DENSITY (g/cm <sup>3</sup> )	—
27. DENSITY (g/cm <sup>3</sup> )	—	28. DENSITY (g/cm <sup>3</sup> )	—	29. DENSITY (g/cm <sup>3</sup> )	—
30. VDL 24110	3.032	31. VDL 24110	3.237	32. VDL 24110	3.237
33. SATURATED VOID RATIO	2.927	34. SATURATED VOID RATIO	2.997	35. SATURATED VOID RATIO	—
36. PLASTIC LIMIT	75.2	37. PLASTIC LIMIT	76.4	38. PLASTIC LIMIT	—
39. LIQUID LIMIT	87.1	40. LIQUID LIMIT	115.8	41. LIQUID LIMIT	—
42. PLASTIC LIMIT	29.1	43. PLASTIC LIMIT	30.8	44. PLASTIC LIMIT	—
45. PLASTICITY INDEX	58.0	46. PLASTICITY INDEX	69.0	47. PLASTICITY INDEX	—
48. LIQUIDITY INDEX	129	49. LIQUIDITY INDEX	134	50. LIQUIDITY INDEX	—
51. COMPRESSION INDEX FROM LL	0.69	52. COMPRESSION INDEX FROM LL	0.99	53. COMPRESSION INDEX FROM LL	—
54. COMPRESSIVE STRENGTH NATURAL	—	55. COMPRESSIVE STRENGTH NATURAL	—	56. COMPRESSIVE STRENGTH NATURAL	—
56. COMPRESSIVE STRENGTH REHOLD	—	57. COMPRESSIVE STRENGTH REHOLD	—	58. COMPRESSIVE STRENGTH REHOLD	—
58. COMPRESSIVE STRENGTH REHOLD	—	59. COMPRESSIVE STRENGTH REHOLD	—	60. COMPRESSIVE STRENGTH REHOLD	—
61. SENSITIVITY	4.2	62. SENSITIVITY	3.7	63. SENSITIVITY	—
64. ANGLE OF INTERNAL FRICTION (°)	—	65. ANGLE OF INTERNAL FRICTION (°)	—	66. ANGLE OF INTERNAL FRICTION (°)	—
67. ACTIVITY	0.8	68. ACTIVITY	1.3	69. ACTIVITY	—
70. RESULTS OF ELASTICITY	—	71. RESULTS OF ELASTICITY	—	72. RESULTS OF ELASTICITY	—
73. TESTS (1)	—	74. TESTS (2)	—	75. TESTS (3)	—

**5. MELLAS** Structure: Padding seldom distinct; mottles may be solitary or grouped in apparently horizontal layers, often presenting a churned appearance. Homogeneous dusky yellow zones may represent completely churned and homogenized sediment.



## CORE ANALYSIS SUMMARY SHEET

### SEDIMENT SIZE AND COMPOSITION

NCEL 10 December 1963

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ANALYSIS OF NUCEL

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**CORE ANALYSIS SUMMARY SHEET**  
**SEDIMENT SIZE AND COMPOSITION**

ANALYST # NCEL

DATE 9 Dec 1963

MANOCHARDO-MARINA (Site 140)

1. CRUISE NO.	2. LATITUDE	3. LONGITUDE	4. SAMPLE NO.	5. DATE TAKEN (DAY, MO., YR.)	6. WATER DEPTH (m)	7. TYPE CORE HYDROPLASTIC	8. CORE LENGTH (cm)	9. CORE RETENTION AND NOT RECORDED
1. CRUISE NO.	D-5							
2. LATITUDE	37 • 49.2'	N						
3. LONGITUDE	126 • 48.9' W							
10. LABORATORY NUMBER	0-3	6-9	12-15	18-21	24-27			
11. SUBSAMPLE DEPTH IN CORE (cm)	0.0-7.6	5.2-22.9	30.5-38.1	45.7-53.3	61.0-68.4			
12. COLOR (GSA ROCK COLOR CHART) FIELD Lab DETERMINATION	SY 5/2	SY 5/2	SGY 6/1	SGY 6/1	SGY 6/1			
13. ODOR	H <sub>2</sub> S	H <sub>2</sub> S	H <sub>2</sub> S	H <sub>2</sub> S	H <sub>2</sub> S			
14. SIZE & COMPOSITION ANALYSIS								
a. > 4 mm	(1)	(1)	(1)	(1)	(1)	(1)	(1)	
b. 4 to 2 mm	(1)	(1)	(1)	(1)	(1)	(1)	(1)	
c. 2 to 1 mm	(1)	(1)	(1)	(1)	(1)	(1)	(1)	
d. 1 to .500 mm	(1)	(1)	(1)	(1)	(1)	(1)	(1)	
e. .500 to .250 mm	(1)	(1)	(1)	(1)	(1)	(1)	(1)	
f. .250 to .125 mm	(1)	(1)	(1)	(1)	(1)	(1)	(1)	
g. .125 to .062 mm	(1)	(1)	(1)	(1)	(1)	(1)	(1)	
h. .062 to .031 mm	(1)	(1)	(1)	(1)	(1)	(1)	(1)	
i. .031 to .016 mm	(1)	(1)	(1)	(1)	(1)	(1)	(1)	
j. .016 to .008 mm	(1)	(1)	(1)	(1)	(1)	(1)	(1)	
k. .008 to .004 mm	(1)	(1)	(1)	(1)	(1)	(1)	(1)	
l. .004 to .002 mm	(1)	(1)	(1)	(1)	(1)	(1)	(1)	
m. .002 to .001 mm	(1)	(1)	(1)	(1)	(1)	(1)	(1)	
n. <.001 mm	(1)	(1)	(1)	(1)	(1)	(1)	(1)	
o. Median Diameter (mm)	0.00008	0.00007	0.00007	0.00008	0.00009			
p. Sorting Coefficient	—	—	—	—	—			
q. Shear stress	—	—	—	—	—			
r. Standard Deviation (mm)	—	—	—	—	—			
s. Sediment Type	CLAY	CLAY	CLAY	CLAY	CLAY			
t. Dominant Minerals	C-100 B-T M-T	Q-60 F-20 C-10	Q-60 F-30 C-30	Q-50 F-40 C-30	Q-40 F-40 C-30			
PLUS 32.5% FRACTION	M-T	C-5	C-5	F-15	B-10			
u. Secondary Minerals	Q-77	B-10 L-7%	B-5 D-7%	B-5 D-7%	M-10 C-7%			
v. Calcium Sulfide	7.29	7.73	7.05	7.37	6.59			
w. Gypsum Content	—	—	—	—	—			
x. Remarks								

C - calcite      Q - quartz  
 B - biotite      F - ferromagnesians  
 M - muscovite      L - limonite

**CORE ANALYSIS SUMMARY SHEET**  
**SEDIMENT SIZE AND COMPOSITION**

NAVOCARDO-SP-REGNOA CRN 1-51

ANALYZED BY NCEI

DATE 11 Dec 1963

1. CRUISE NO.	D-5	4. SAMPLE NO.	BS-4B	7. TYPE CORE HYDROPLASTIC
2. LATITUDE	37° 0' N	5. DATE TAKEN (DAY, MO., YR.)	1/5/63	8. CORE LENGTH (cm)
3. LONGITUDE	27° 0' W	6. WATER DEPTH (m)	44.44	9. CORE PENETRATION (cm) NOT RECORDED
10. LABORATORY NUMBER	0-3	6-9	12-15	18-21
11. SUBSAMPLE DEPTH IN CORE (cm)	0.0-7.6	15.2-22.9	30.5-38.1	45.7-53.3
12. COLOR (GSA ROCK COLOR CHART) FIELD <input checked="" type="checkbox"/> LAB DETERMINATION	DYR G/2	10YR G/2	10YR G/2	10YR G/2
13. OODR	[L]	[L]	[L]	[L]
14. SIZE & COMPOSITION ANALYSIS		H <sub>2</sub> S	H <sub>2</sub> S	H <sub>2</sub> S
a. > 4 mm	(2)	0	0	0
b. 4 to 2 mm	(3)	0	0	0
c. 2 to 1 mm	(3)	0	0	0
d. 1 to .500 mm	(3)	0	0	0
e. .500 to .250 mm	(3)	0	0	0
f. .250 to .125 mm	(3)	0	0	0
g. .125 to .062 mm	(3)	0	0	0
h. .062 to .031 mm	(3)	0.1	0	0
i. .031 to .016 mm	(3)	0.1	0.1	0.1
j. .016 to .004 mm	(3)	4.9	0.1	0.2
k. .008 to .004 mm	(3)	12.1	6.8	9.7
l. .004 to .002 mm	(3)	14.6	17.8	16.2
m. .002 to .001 mm	(3)	16.7	18.6	16.3
n. <.001 mm	(3)	51.5	56.6	57.0
o. Median Diameter (cm)	0.0009	0.0003	0.0007	0.0005
p. Sorting Coefficient	—	—	14.2	12.9
q. Skewness	—	—	—	—
r. Standard Deviation (cm)	—	—	—	—
s. Sediment Type	CLAY	CLAY	CLAY	CLAY
t. Detrital Minerals	C-100 M-T <sub>6</sub> L-T <sub>6</sub>	C-100 M-T <sub>6</sub> L-T <sub>6</sub>	C-100 M-T <sub>6</sub> P-T <sub>6</sub>	C-70 G-25 O-5
plus 32% fraction	—	—	Q-T <sub>6</sub>	M-T <sub>6</sub>
u. Secondary Minerals	O-T <sub>6</sub>	—	O-T <sub>6</sub>	O-T <sub>6</sub>
v. Calcite Content	7.53	7.60	6.70	7.36
w. Silicate Content	(5)	—	—	6.42
x. Quartz Content	(5)	—	—	5.99
y. Remarks	82	—	—	—

C - calcite      O - organic material  
 M - muscovite      P - pyrite  
 L - limonite      Q - quartz



**CORE ANALYSIS SUMMARY SHEET**  
**SEDIMENT SIZE AND COMPOSITION**

NAVOCBARTON SEDIMENT AREA (Box 1-61)

ANALYST IN NCEL

DATE 5 NOVEMBER 1963

1. CRUISE NO.	D-5	4. SAMPLE NO.	B5 - 6.5	7. TYPE COAT KULL ENBERG
2. LATITUDE	38° 0' N	5. DATE TAKEN (DA), MO., YR.)	10-5-63	8. CORE LENGTH (cm)
3. LONGITUDE	127° 18' E W	6. WATER DEPTH (m)	42.44	9. CORE PERCENTAGE (%) NOT RECORDED
10. LABORATORY NUMBER	0-3	10. 1/2 - 1.5	18.21	24.27
11. SUBSAMPLE DEPTH IN CORE (cm)	0.76	11. 52-229	30.5381457-533620-606	
12. COLOR (GSA ROCK COLOR CHART)	5Y 5/2	12. 5Y 5/2	5Y 5/2	5Gy 4/1
13. FIELD LAB DETERMINATION	L	13. L	L	L
13. ODOR	H2S	14. SIZE & COMPOSITION ANALYSIS	H2S	H2S
a. > 4 mm (g)	0	a. 0	0	0
b. 4 to 2 mm (g)	0	b. 0	0	0
c. 2 to 1 mm (g)	0	c. 0	0	0
d. 1 to .500 mm (g)	0	d. 0	0	0
e. .500 to .250 mm (g)	0	e. 0	0	0
f. .250 to .125 mm (g)	0	f. 0	0	0
g. .125 to .062 mm (g)	0.1	g. 0.3	1.0	22.5 0.5
h. .062 to .031 mm (g)	0.9	h. 1.7	3.0	34.0 6.5
i. .031 to .016 mm (g)	6.5	i. 7.0	5.0	17.0 8.0
j. .016 to .008 mm (g)	9.5	j. 11.0	9.0	11.0 10.5
k. .008 to .004 mm (g)	11.0	k. 11.0	12.0	4.0 11.5
l. .004 to .002 mm (g)	11.0	l. 13.0	14.0	1.0 11.5
m. .002 to .001 mm (g)	12.0	m. 13.0	16.0	0.5 12.5
n. <.001 mm (g)	45.0	n. 43.0	40.0	9.5 39.0
o. Median Diameter (mm)	0.0012	o. 0.014	0.0015	0.0380 0.0013
p. Sorting Coefficient	-	p. -	-	-
q. Sheeness	-	q. -	-	-
r. Standard Deviation (mm)	-	r. -	-	-
s. Sediment Type	SILTY CLAY	s. SILTY CLAY	SILTY CLAY	SILTY CLAY
t. Dominant Minerals (%)	C-10C O-TP M-TR	t. C-40 C-20 M-20	t. Q-70 F-20 M-5	t. Q-60 F-35 L-5
Plus 325 Fraction	-	Plus 325 Fraction	M-72	M-72
u. Secondary Minerals (%)	-	u. M-72	C-5	M-72
v. Calcium Carbonate (%)	9.61	v. Calcium Carbonate (%)	7.70	7.31
w. Organic Carbon (%)	-	w. Organic Carbon (%)	-	-
x. Manganese (%)	-	x. Manganese (%)	-	-
15. MINERALS	C - Calcite O - Organic Material MI - Mica	F - Ferromagnesians Q - Quartz M - Muscovite	B - Biotite L - Limonite P - Pyrite	

# **SCEDIMENT SIZES AND COMPOSITION AS A FUNCTION OF SUMMARY SIZE**

SCALIZZATO 57

22 Nov 1963

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## MO - manganese oxide

L = limonite

O - organic material

Q - quartz  
C - calcite  
F - ferromagnesians

## CORE ANALYSIS SUMMARY SECTION

INCÉL AVAILTÉD 5

22 Nov 1963

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1. HUINSE NO.	2. D - 5	4. SAMPLE NO.	5. DATE TAKEN (DAY, MO., YR.)	6. WATER DEPTH (m)	7. TYPE CORE MILLER BEADS
LATITUDE 38° 0' N	10° N	8. CORE LENGTH (cm)	10/5/63	9. CORE POSITION (cm) NOT RECORDED	7. CORE LENGTH (cm) 2.29
LONGITUDE 127° 37' W	W	10. SUBSAMPLE DEPTH IN CORE (cm)	198-202	10Y 4/2 5GYL 11	11. GSA ROCK COLDA CHART
11. FIELD LITHOLOGY DETERMINATION	L1	12. DEPTHS (cm)	200	L1	13. DEPTHS (cm)
14. DEGR	H2S	15. DECOMPOSITION INDICES			
16. 2-4	5-6	17. 0	0		
18. 1-2	3-4	19. 0	0		
20. 2-1	3-2	21. 0	0		
22. 0-200	200	23. 0	0		
24. 0-250	250	25. 0	0		
26. 0-125	125	27. 0.2	0.3		
28. 0-65	65	29. 0.3	7.2		
30. 0-32	32	31. 0.0	15.5		
32. 0-16	16	33. 10.5	6.0		
34. 0-8	8	35. 17.0	6.0		
36. 0-4	4	37. 10.5	9.0		
38. 0-2	2	39. 9.5	11.5		
40. 0-1	1	41. 8.0	12.5		
42. <0.5	<0.5	43. 38.0	32.0		
44. Nitrogen Dissolved (mol)	0.0026	45. 0.0026			
46. Sorting Coefficient	—	47. —			
48. Shrinkage	—	49. —			
50. Standard Deviation (cm)	—	51. —			
52. Sediment Type	SILT	53. CLAY			
54. Bedding Unbedded	(1)	55. 0-70			
56. 32.5 FRACTION	5-40	57. 0-30			
58. Decimetre Intervals	(6)	59. 0-TR	C-TR		
60. Clayey Fraction	(1)	61. 0-TR	S-TR		
62. Siliceous Fraction	(1)	63. 5.29	5.60		
64. READING	—	65. —	—		

**CORE ANALYSIS SUMMARY SHEET  
SEDIMENT SIZE AND COMPOSITION**

ANALYZED BY NCEL

DATE 18 Nov. 1963

**NAVIGATION DATA (in fms)**

1. CRUISE NO.		4. SAMPLE NO.		5. DATE TAKEN (DAY, MO., YR.)		6. WATER DEPTH (m)		7. SAMPLE NO.		8. POSITION (LAT., LONG.)		9. CORE LENGTH (cm)		10. CORE DIAMETER (cm)		11. TYPE CONTA. KULLERBERG	
2. LATITUDE <u>38° 0' N</u>		3. LONGITUDE <u>77° 0' W</u>		10/5/63		2550		10/5/63		30-33		36-39		42-45		48-51	
4. Core length (cm)		5. Water depth (m)		6. Date taken (day, mo., yr.)		7. Sample no.		8. Position (lat., long.)		9. Core length (cm)		10. Core diameter (cm)		11. Type conta. Kullerberg		12. Core length (cm)	
5. Laboratory number		6. Sample depth (cm)		7. Date taken (day, mo., yr.)		8. Water depth (m)		9. Sample no.		10. Lat. (°N)		11. Long. (°W)		12. Core length (cm)		13. Core diameter (cm)	
13. Sediment type		14. Dominant minerals		15. Dominant organic material		16. Dominant limonite		17. Dominant mica		18. Dominant clay		19. Dominant carbonates		20. Dominant sulfides		21. Dominant oxides	
1. Silt		2. Clay		3. Calc.		4. Silt		5. Clay		6. Calc.		7. Silt		8. Calc.		9. Silt	
10. Mica		11. Limonite		12. Pyrite		13. Micas		14. Clay		15. Calc.		16. Mica		17. Calc.		18. Mica	
19. Calcite		20. Organic material		21. Pyrite		22. Micas		23. Clay		24. Calc.		25. Mica		26. Calc.		27. Mica	
28. Manganese oxide		29. Manganese		30. Manganese		31. Manganese		32. Manganese		33. Manganese		34. Manganese		35. Manganese		36. Manganese	
37. Manganese		38. Manganese		39. Manganese		40. Manganese		41. Manganese		42. Manganese		43. Manganese		44. Manganese		45. Manganese	
46. Manganese		47. Manganese		48. Manganese		49. Manganese		50. Manganese		51. Manganese		52. Manganese		53. Manganese		54. Manganese	
55. Manganese		56. Manganese		57. Manganese		58. Manganese		59. Manganese		60. Manganese		61. Manganese		62. Manganese		63. Manganese	
64. Manganese		65. Manganese		66. Manganese		67. Manganese		68. Manganese		69. Manganese		70. Manganese		71. Manganese		72. Manganese	
73. Manganese		74. Manganese		75. Manganese		76. Manganese		77. Manganese		78. Manganese		79. Manganese		80. Manganese		81. Manganese	
82. Manganese		83. Manganese		84. Manganese		85. Manganese		86. Manganese		87. Manganese		88. Manganese		89. Manganese		90. Manganese	
91. Manganese		92. Manganese		93. Manganese		94. Manganese		95. Manganese		96. Manganese		97. Manganese		98. Manganese		99. Manganese	
100. Manganese		101. Manganese		102. Manganese		103. Manganese		104. Manganese		105. Manganese		106. Manganese		107. Manganese		108. Manganese	
109. Manganese		110. Manganese		111. Manganese		112. Manganese		113. Manganese		114. Manganese		115. Manganese		116. Manganese		117. Manganese	
118. Manganese		119. Manganese		120. Manganese		121. Manganese		122. Manganese		123. Manganese		124. Manganese		125. Manganese		126. Manganese	
127. Manganese		128. Manganese		129. Manganese		130. Manganese		131. Manganese		132. Manganese		133. Manganese		134. Manganese		135. Manganese	
136. Manganese		137. Manganese		138. Manganese		139. Manganese		140. Manganese		141. Manganese		142. Manganese		143. Manganese		144. Manganese	
145. Manganese		146. Manganese		147. Manganese		148. Manganese		149. Manganese		150. Manganese		151. Manganese		152. Manganese		153. Manganese	
154. Manganese		155. Manganese		156. Manganese		157. Manganese		158. Manganese		159. Manganese		160. Manganese		161. Manganese		162. Manganese	
163. Manganese		164. Manganese		165. Manganese		166. Manganese		167. Manganese		168. Manganese		169. Manganese		170. Manganese		171. Manganese	
172. Manganese		173. Manganese		174. Manganese		175. Manganese		176. Manganese		177. Manganese		178. Manganese		179. Manganese		180. Manganese	
181. Manganese		182. Manganese		183. Manganese		184. Manganese		185. Manganese		186. Manganese		187. Manganese		188. Manganese		189. Manganese	
190. Manganese		191. Manganese		192. Manganese		193. Manganese		194. Manganese		195. Manganese		196. Manganese		197. Manganese		198. Manganese	
199. Manganese		200. Manganese		201. Manganese		202. Manganese		203. Manganese		204. Manganese		205. Manganese		206. Manganese		207. Manganese	
208. Manganese		209. Manganese		210. Manganese		211. Manganese		212. Manganese		213. Manganese		214. Manganese		215. Manganese		216. Manganese	
217. Manganese		218. Manganese		219. Manganese		220. Manganese		221. Manganese		222. Manganese		223. Manganese		224. Manganese		225. Manganese	
226. Manganese		227. Manganese		228. Manganese		229. Manganese		230. Manganese		231. Manganese		232. Manganese		233. Manganese		234. Manganese	
235. Manganese		236. Manganese		237. Manganese		238. Manganese		239. Manganese		240. Manganese		241. Manganese		242. Manganese		243. Manganese	
244. Manganese		245. Manganese		246. Manganese		247. Manganese		248. Manganese		249. Manganese		250. Manganese		251. Manganese		252. Manganese	
253. Manganese		254. Manganese		255. Manganese		256. Manganese		257. Manganese		258. Manganese		259. Manganese		260. Manganese		261. Manganese	
262. Manganese		263. Manganese		264. Manganese		265. Manganese		266. Manganese		267. Manganese		268. Manganese		269. Manganese		270. Manganese	
271. Manganese		272. Manganese		273. Manganese		274. Manganese		275. Manganese		276. Manganese		277. Manganese		278. Manganese		279. Manganese	
280. Manganese		281. Manganese		282. Manganese		283. Manganese		284. Manganese		285. Manganese		286. Manganese		287. Manganese		288. Manganese	
289. Manganese		290. Manganese		291. Manganese		292. Manganese		293. Manganese		294. Manganese		295. Manganese		296. Manganese		297. Manganese	
298. Manganese		299. Manganese		300. Manganese		301. Manganese		302. Manganese		303. Manganese		304. Manganese		305. Manganese		306. Manganese	
307. Manganese		308. Manganese		309. Manganese		310. Manganese		311. Manganese		312. Manganese		313. Manganese		314. Manganese		315. Manganese	
316. Manganese		317. Manganese		318. Manganese		319. Manganese		320. Manganese		321. Manganese		322. Manganese		323. Manganese		324. Manganese	

## CORE ANALYSIS SUMMARY SHEET

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12 Nov. 1963

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Cruise No.		Sample No.		Date Taken (day, no. tri.)		Core Length (cm)		Type Core Kullenberg	
2. Latitude 38° 09' N		6. Date Depth (m)		5. Date Depth (m)		3. Core Length (cm)		1. Type Core Kullenberg	
3. Temperature /28.0/ 05.4/ 14/		4. Depth (m)		4. Depth (m)		5. Core Length (cm)		2. Core Length (cm)	
4. Subsample Depth in Core (cm)		5.2-27.5/ 30.5-38.0/ 41.7-53.3/ 61.0-68.6/ 72.2-83.8/ 91.4-98.1/ 107-114/ 122-130/ 137-145/ 152-163/		6. Subsample Depth in Core (cm)		7. Core Factor, cm/m		8. Core Factor, cm/m	
4.1. Rock Color Chart		107x24/2/ 124x24/2/ 139x24/2/ 149x24/2/ 159x24/2/ 169x24/2/		107x24/2/ 124x24/2/ 139x24/2/ 149x24/2/ 159x24/2/ 169x24/2/		9. Core Factor, cm/m		10. Core Factor, cm/m	
4.2. Color Determination		L1		L2		L3		L4	
4.3. Depth Interval (cm)		H2.5		H2.5		H2.5		H2.5	
4.4. Depth Interval (cm)		H2.5		H2.5		H2.5		H2.5	
4.5. Depth Interval (cm)		H2.5		H2.5		H2.5		H2.5	
4.6. Depth Interval (cm)		H2.5		H2.5		H2.5		H2.5	
4.7. Depth Interval (cm)		H2.5		H2.5		H2.5		H2.5	
4.8. Depth Interval (cm)		H2.5		H2.5		H2.5		H2.5	
4.9. Depth Interval (cm)		H2.5		H2.5		H2.5		H2.5	
4.10. Depth Interval (cm)		H2.5		H2.5		H2.5		H2.5	
4.11. Depth Interval (cm)		H2.5		H2.5		H2.5		H2.5	
4.12. Depth Interval (cm)		H2.5		H2.5		H2.5		H2.5	
4.13. Depth Interval (cm)		H2.5		H2.5		H2.5		H2.5	
4.14. Depth Interval (cm)		H2.5		H2.5		H2.5		H2.5	
4.15. Depth Interval (cm)		H2.5		H2.5		H2.5		H2.5	
4.16. Depth Interval (cm)		H2.5		H2.5		H2.5		H2.5	
4.17. Depth Interval (cm)		H2.5		H2.5		H2.5		H2.5	
4.18. Depth Interval (cm)		H2.5		H2.5		H2.5		H2.5	
4.19. Depth Interval (cm)		H2.5		H2.5		H2.5		H2.5	
4.20. Depth Interval (cm)		H2.5		H2.5		H2.5		H2.5	
4.21. Depth Interval (cm)		H2.5		H2.5		H2.5		H2.5	
4.22. Depth Interval (cm)		H2.5		H2.5		H2.5		H2.5	
4.23. Depth Interval (cm)		H2.5		H2.5		H2.5		H2.5	
4.24. Depth Interval (cm)		H2.5		H2.5		H2.5		H2.5	
4.25. Depth Interval (cm)		H2.5		H2.5		H2.5		H2.5	
4.26. Depth Interval (cm)		H2.5		H2.5		H2.5		H2.5	
4.27. Depth Interval (cm)		H2.5		H2.5		H2.5		H2.5	
4.28. Depth Interval (cm)		H2.5		H2.5		H2.5		H2.5	
4.29. Depth Interval (cm)		H2.5		H2.5		H2.5		H2.5	
4.30. Depth Interval (cm)		H2.5		H2.5		H2.5		H2.5	
4.31. Depth Interval (cm)		H2.5		H2.5		H2.5		H2.5	
4.32. Depth Interval (cm)		H2.5		H2.5		H2.5		H2.5	
4.33. Depth Interval (cm)		H2.5		H2.5		H2.5		H2.5	
4.34. Depth Interval (cm)		H2.5		H2.5		H2.5		H2.5	
4.35. Depth Interval (cm)		H2.5		H2.5		H2.5		H2.5	
4.36. Depth Interval (cm)		H2.5		H2.5		H2.5		H2.5	
4.37. Depth Interval (cm)		H2.5		H2.5		H2.5		H2.5	
4.38. Depth Interval (cm)		H2.5		H2.5		H2.5		H2.5	
4.39. Depth Interval (cm)		H2.5		H2.5		H2.5		H2.5	
4.40. Depth Interval (cm)		H2.5		H2.5		H2.5		H2.5	
4.41. Depth Interval (cm)		H2.5		H2.5		H2.5		H2.5	
4.42. Depth Interval (cm)		H2.5		H2.5		H2.5		H2.5	
4.43. Depth Interval (cm)		H2.5		H2.5		H2.5		H2.5	
4.44. Depth Interval (cm)		H2.5		H2.5		H2.5		H2.5	
4.45. Depth Interval (cm)		H2.5		H2.5		H2.5		H2.5	
4.46. Depth Interval (cm)		H2.5		H2.5		H2.5		H2.5	
4.47. Depth Interval (cm)		H2.5		H2.5		H2.5		H2.5	
4.48. Depth Interval (cm)		H2.5		H2.5		H2.5		H2.5	
4.49. Depth Interval (cm)		H2.5		H2.5		H2.5		H2.5	
4.50. Depth Interval (cm)		H2.5		H2.5		H2.5		H2.5	
4.51. Depth Interval (cm)		H2.5		H2.5		H2.5		H2.5	
4.52. Depth Interval (cm)		H2.5		H2.5		H2.5		H2.5	
4.53. Depth Interval (cm)		H2.5		H2.5		H2.5		H2.5	
4.54. Depth Interval (cm)		H2.5		H2.5		H2.5		H2.5	
4.55. Depth Interval (cm)		H2.5		H2.5		H2.5		H2.5	
4.56. Depth Interval (cm)		H2.5		H2.5		H2.5		H2.5	
4.57. Depth Interval (cm)		H2.5		H2.5		H2.5		H2.5	
4.58. Depth Interval (cm)		H2.5		H2.5		H2.5		H2.5	
4.59. Depth Interval (cm)		H2.5		H2.5		H2.5		H2.5	
4.60. Depth Interval (cm)		H2.5		H2.5		H2.5		H2.5	
4.61. Depth Interval (cm)		H2.5		H2.5		H2.5		H2.5	
4.62. Depth Interval (cm)		H2.5		H2.5		H2.5		H2.5	
4.63. Depth Interval (cm)		H2.5		H2.5		H2.5		H2.5	
4.64. Depth Interval (cm)		H2.5		H2.5		H2.5		H2.5	
4.65. Depth Interval (cm)		H2.5		H2.5		H2.5		H2.5	
4.66. Depth Interval (cm)		H2.5		H2.5		H2.5		H2.5	
4.67. Depth Interval (cm)		H2.5		H2.5		H2.5		H2.5	
4.68. Depth Interval (cm)		H2.5		H2.5		H2.5		H2.5	
4.69. Depth Interval (cm)		H2.5		H2.5		H2.5		H2.5	
4.70. Depth Interval (cm)		H2.5		H2.5		H2.5		H2.5	
4.71. Depth Interval (cm)		H2.5		H2.5		H2.5		H2.5	
4.72. Depth Interval (cm)		H2.5		H2.5		H2.5		H2.5	
4.73. Depth Interval (cm)		H2.5		H2.5		H2.5		H2.5	
4.74. Depth Interval (cm)		H2.5		H2.5		H2.5		H2.5	
4.75. Depth Interval (cm)		H2.5		H2.5		H2.5		H2.5	
4.76. Depth Interval (cm)		H2.5		H2.5		H2.5		H2.5	
4.77. Depth Interval (cm)		H2.5		H2.5		H2.5		H2.5	
4.78. Depth Interval (cm)		H2.5		H2.5		H2.5		H2.5	
4.79. Depth Interval (cm)		H2.5</td							

WF - wood fragments  
MO - manganese oxide

O - organic matter  
M - muscovite  
L - limonite

20

S = silica  
P = pyrite  
C = Cillaritz

**CORE ANALYSIS SUMMARY SHEET**  
SEDIMENT SIZE AND COMPOSITION

ANALYZED BY NCEL  
DATE 5 Nov. 1963

NAVIGATION DATA (cm±.5)

1. CHISEL NO.	D-5	4. SAMPLE NO.	B5-12B	7. TYPE CORER	KILLENBERG
2. LATITUDE 37° 45'.6' N	"	5. DATE TAKEN (DAY, MO., YR.)	12/5/63	6. CORE LENGTH (cm)	6.4
3. LONGITUDE 27° 35.0' W	"	6. WATER DEPTH (m)	45.72	7. CORE POSITION	NOT RECORDED
10. LAUGARDOTTIR NUMBER	D-3	7. 12-15	19.21		
11. SUBSAMPLE DEPTH IN CORE (cm)	0.0-7.5	8. 15.2-22.5	45.7533		
12. COLOR (GSA ROCK COLOR CHART) [TYPE OF COLOR DETERMINATION]	10.8-4.2	9. 22.5-31.2	45.7472		
13. COLOR	L	10. 31.2-40.0	45.7400		
	H <sub>2</sub> S	11. 40.0-48.8	45.7333		
	H <sub>2</sub> S	12. 48.8-57.5	45.7267		

4. SITE & COMPOSITION ANALYSIS

a. > 4 mm	(S)	151	0	0	0	0
b. 4 to 2 mm	(S)	0	0	0	0	0
c. 2 to 1 mm	(S)	0	0	0	0	0
d. 1 to .500 mm	(S)	0	0	0	0	0
e. .500 to .250 mm	(S)	0	0	0	0	0
f. .250 to .125 mm	(S)	0	0	0	0	0
g. .125 to .062 mm	(S)	0	0	0	0	0
h. .062 to .031 mm	(S)	0	0	0	0	0
i. .031 to .016 mm	(S)	6.0	9.0	6.5	31.0	
j. .016 to .003 mm	(S)	11.0	23.0	16.0	25.0	
k. .008 to .003 mm	(S)	12.0	14.0	16.0	10.0	
l. .004 to .002 mm	(S)	11.5	9.5	12.0	4.0	
m. .002 to .001 mm	(S)	10.5	8.0	8.5	1.0	
n. <.001 mm	(S)	48.0	34.5	39.5	5.0	
o. Median Diameter (cm)	0.0011	0.0034	0.0023	0.0150		
p. Sorting Coefficient	-	-	-	-		
q. Shear stress	-	-	-	-		
r. Standard Deviation (cm)	0.0011	0.0034	0.0023	0.0150		
s. Sediment Type	SILT	SILT	SILT	SILT		
t. Dominant Minerals *	(S)	2-9.0	2-9.0	3-10.0		
PLUS 32.5 FRACTION	P-10 L-TR	M-15 D-TR	M-15 L-TR	M-TR		
u. Secondary Minerals *	(S)	L-TR	B-TR	WF		
v. Calcium Carbonate (%)	10.72	10.24	10.22	4.28		
w. Organic Content (%)	(S)	--	--	--		

15. REMARKS \* S - silica      M - muscovite  
                                   P - pyrite      O - organic material  
                                   L - limonite      B - biotite

70

MO - manganese oxide  
                                   WF - wood fragments

## CORE ANALYSIS SUMMARY SET 1 SEDIMENT SIZE AND COMPOSITION

SEARCHED INDEXED FILED NCCL

MAY 1970 VOL 46 / NO 5

2. CHUTE NO.	D-5	4. SAMPLE NO.	B5 - 138	7. TYPE GACH KUILL ENRE OZ
2. LAT/LON	37° 47' 30"	5. DATE TAKEN DAY, MO., YR.	12/5/63	8. CORE LENGTH (cm)
3. DEPTH (m)	12.70	6. DATED DIAH (m)	4.426	9. CORE PRACTICABLY 100% RECORDED
10. LABORATORY NUMBER	0-3	6-9	12.5	18.21
11. SUBSAMPLE DEPTH IN CORE (cm)	0.0-7.6	15.2-22.9	30.5-38.1	45.7-53.3
12. OTHER (CODES)	10/24/2	0/2-4/2	5/6-4/1	5/6-6/1
13. RECENT BATHYMETRIC CHART	H-25	H-25	H-25	H-25
14. DEPT	H-25	H-25	H-25	H-25
15. CHUTE'S CONSTRUCTION ANALYSIS				
16. 1. 10.000 10.000 10.000	0	0	0	0
17. 2. 10.000 10.000 10.000	0	0	0	0
18. 3. 10.000 10.000 10.000	0	0	0	0
19. 4. 10.000 10.000 10.000	0	0	0	0
20. 5. 10.000 10.000 10.000	0	0	0	0
21. 6. 10.000 10.000 10.000	0	0	0	0
22. 7. 10.000 10.000 10.000	0	0	0	0
23. 8. 10.000 10.000 10.000	0	0	0	0
24. 9. 10.000 10.000 10.000	0	0	0	0
25. 10. 10.000 10.000 10.000	0	0	0	0
26. 11. 10.000 10.000 10.000	0	0	0	0
27. 12. 10.000 10.000 10.000	0	0	0	0
28. 13. 10.000 10.000 10.000	0	0	0	0
29. 14. 10.000 10.000 10.000	0	0	0	0
30. 15. 10.000 10.000 10.000	0	0	0	0
31. 16. 10.000 10.000 10.000	0	0	0	0
32. 17. 10.000 10.000 10.000	0	0	0	0
33. 18. 10.000 10.000 10.000	0	0	0	0
34. 19. 10.000 10.000 10.000	0	0	0	0
35. 20. 10.000 10.000 10.000	0	0	0	0
36. 21. 10.000 10.000 10.000	0	0	0	0
37. 22. 10.000 10.000 10.000	0	0	0	0
38. 23. 10.000 10.000 10.000	0	0	0	0
39. 24. 10.000 10.000 10.000	0	0	0	0
40. 25. 10.000 10.000 10.000	0	0	0	0
41. 26. 10.000 10.000 10.000	0	0	0	0
42. 27. 10.000 10.000 10.000	0	0	0	0
43. 28. 10.000 10.000 10.000	0	0	0	0
44. 29. 10.000 10.000 10.000	0	0	0	0
45. 30. 10.000 10.000 10.000	0	0	0	0
46. 31. 10.000 10.000 10.000	0	0	0	0
47. 32. 10.000 10.000 10.000	0	0	0	0
48. 33. 10.000 10.000 10.000	0	0	0	0
49. 34. 10.000 10.000 10.000	0	0	0	0
50. 35. 10.000 10.000 10.000	0	0	0	0
51. 36. 10.000 10.000 10.000	0	0	0	0
52. 37. 10.000 10.000 10.000	0	0	0	0
53. 38. 10.000 10.000 10.000	0	0	0	0
54. 39. 10.000 10.000 10.000	0	0	0	0
55. 40. 10.000 10.000 10.000	0	0	0	0
56. 41. 10.000 10.000 10.000	0	0	0	0
57. 42. 10.000 10.000 10.000	0	0	0	0
58. 43. 10.000 10.000 10.000	0	0	0	0
59. 44. 10.000 10.000 10.000	0	0	0	0
60. 45. 10.000 10.000 10.000	0	0	0	0
61. 46. 10.000 10.000 10.000	0	0	0	0
62. 47. 10.000 10.000 10.000	0	0	0	0
63. 48. 10.000 10.000 10.000	0	0	0	0
64. 49. 10.000 10.000 10.000	0	0	0	0
65. 50. 10.000 10.000 10.000	0	0	0	0
66. 51. 10.000 10.000 10.000	0	0	0	0
67. 52. 10.000 10.000 10.000	0	0	0	0
68. 53. 10.000 10.000 10.000	0	0	0	0
69. 54. 10.000 10.000 10.000	0	0	0	0
70. 55. 10.000 10.000 10.000	0	0	0	0
71. 56. 10.000 10.000 10.000	0	0	0	0
72. 57. 10.000 10.000 10.000	0	0	0	0
73. 58. 10.000 10.000 10.000	0	0	0	0
74. 59. 10.000 10.000 10.000	0	0	0	0
75. 60. 10.000 10.000 10.000	0	0	0	0
76. 61. 10.000 10.000 10.000	0	0	0	0
77. 62. 10.000 10.000 10.000	0	0	0	0
78. 63. 10.000 10.000 10.000	0	0	0	0
79. 64. 10.000 10.000 10.000	0	0	0	0
80. 65. 10.000 10.000 10.000	0	0	0	0
81. 66. 10.000 10.000 10.000	0	0	0	0
82. 67. 10.000 10.000 10.000	0	0	0	0
83. 68. 10.000 10.000 10.000	0	0	0	0
84. 69. 10.000 10.000 10.000	0	0	0	0
85. 70. 10.000 10.000 10.000	0	0	0	0
86. 71. 10.000 10.000 10.000	0	0	0	0
87. 72. 10.000 10.000 10.000	0	0	0	0
88. 73. 10.000 10.000 10.000	0	0	0	0
89. 74. 10.000 10.000 10.000	0	0	0	0
90. 75. 10.000 10.000 10.000	0	0	0	0
91. 76. 10.000 10.000 10.000	0	0	0	0
92. 77. 10.000 10.000 10.000	0	0	0	0
93. 78. 10.000 10.000 10.000	0	0	0	0
94. 79. 10.000 10.000 10.000	0	0	0	0
95. 80. 10.000 10.000 10.000	0	0	0	0
96. 81. 10.000 10.000 10.000	0	0	0	0
97. 82. 10.000 10.000 10.000	0	0	0	0
98. 83. 10.000 10.000 10.000	0	0	0	0
99. 84. 10.000 10.000 10.000	0	0	0	0
100. 85. 10.000 10.000 10.000	0	0	0	0
101. 86. 10.000 10.000 10.000	0	0	0	0
102. 87. 10.000 10.000 10.000	0	0	0	0
103. 88. 10.000 10.000 10.000	0	0	0	0
104. 89. 10.000 10.000 10.000	0	0	0	0
105. 90. 10.000 10.000 10.000	0	0	0	0
106. 91. 10.000 10.000 10.000	0	0	0	0
107. 92. 10.000 10.000 10.000	0	0	0	0
108. 93. 10.000 10.000 10.000	0	0	0	0
109. 94. 10.000 10.000 10.000	0	0	0	0
110. 95. 10.000 10.000 10.000	0	0	0	0
111. 96. 10.000 10.000 10.000	0	0	0	0
112. 97. 10.000 10.000 10.000	0	0	0	0
113. 98. 10.000 10.000 10.000	0	0	0	0
114. 99. 10.000 10.000 10.000	0	0	0	0
115. 100. 10.000 10.000 10.000	0	0	0	0
116. 101. 10.000 10.000 10.000	0	0	0	0
117. 102. 10.000 10.000 10.000	0	0	0	0
118. 103. 10.000 10.000 10.000	0	0	0	0
119. 104. 10.000 10.000 10.000	0	0	0	0
120. 105. 10.000 10.000 10.000	0	0	0	0
121. 106. 10.000 10.000 10.000	0	0	0	0
122. 107. 10.000 10.000 10.000	0	0	0	0
123. 108. 10.000 10.000 10.000	0	0	0	0
124. 109. 10.000 10.000 10.000	0	0	0	0
125. 110. 10.000 10.000 10.000	0	0	0	0
126. 111. 10.000 10.000 10.000	0	0	0	0
127. 112. 10.000 10.000 10.000	0	0	0	0
128. 113. 10.000 10.000 10.000	0	0	0	0
129. 114. 10.000 10.000 10.000	0	0	0	0
130. 115. 10.000 10.000 10.000	0	0	0	0
131. 116. 10.000 10.000 10.000	0	0	0	0
132. 117. 10.000 10.000 10.000	0	0	0	0
133. 118. 10.000 10.000 10.000	0	0	0	0
134. 119. 10.000 10.000 10.000	0	0	0	0
135. 120. 10.000 10.000 10.000	0	0	0	0
136. 121. 10.000 10.000 10.000	0	0	0	0
137. 122. 10.000 10.000 10.000	0	0	0	0
138. 123. 10.000 10.000 10.000	0	0	0	0
139. 124. 10.000 10.000 10.000	0	0	0	0
140. 125. 10.000 10.000 10.000	0	0	0	0
141. 126. 10.000 10.000 10.000	0	0	0	0
142. 127. 10.000 10.000 10.000	0	0	0	0
143. 128. 10.000 10.000 10.000	0	0	0	0
144. 129. 10.000 10.000 10.000	0	0	0	0
145. 130. 10.000 10.000 10.000	0	0	0	0
146. 131. 10.000 10.000 10.000	0	0	0	0
147. 132. 10.000 10.000 10.000	0	0	0	0
148. 133. 10.000 10.000 10.000	0	0	0	0
149. 134. 10.000 10.000 10.000	0	0	0	0
150. 135. 10.000 10.000 10.000	0	0	0	0
151. 136. 10.000 10.000 10.000	0	0	0	0
152. 137. 10.000 10.000 10.000	0	0	0	0
153. 138. 10.000 10.000 10.000	0	0	0	0
154. 139. 10.000 10.000 10.000	0	0	0	0
155. 140. 10.000 10.000 10.000	0	0	0	0
156. 141. 10.000 10.000 10.000	0	0	0	0
157. 142. 10.000 10.000 10.000	0	0	0	0
158. 143. 10.000 10.000 10.000	0	0	0	0
159. 144. 10.000 10.000 10.000	0	0	0	0
160. 145. 10.000 10.000 10.000	0	0	0	0
161. 146. 10.000 10.000 10.000	0	0	0	0
162. 147. 10.000 10.000 10.000	0	0	0	0
163. 148. 10.000 10.000 10.000	0	0	0	0
164. 149. 10.000 10.000 10.000	0	0	0	0
165. 150. 10.000 10.000 10.000	0	0	0	0
166. 151. 10.000 10.000 10.000	0	0	0	0
167. 152. 10.000 10.000 10.000	0	0	0	0
168. 153. 10.000 10.000 10.000	0	0	0	0
169. 154. 10.000 10.000 10.000	0	0	0	0
170. 155. 10.000 10.000 10.000	0	0	0	0
171. 156. 10.000 10.000 10.000	0	0	0	0
172. 157. 10.000 10.000 10.000	0	0	0	0
173. 158. 10.000 10.000 10.000	0	0	0	0
174. 159. 10.000 10.000 10.000	0	0	0	0
175. 160. 10.000 10.000 10.000	0	0	0	0
176. 161. 10.000 10.000 10.000	0	0	0	0
177. 162. 10.000 10.000 10.000	0	0	0	0
178. 163. 10.000 10.000 10.000	0	0	0	0
179. 164. 10.000 10.000 10.000	0	0	0	0
180. 165. 10.000 10.000 10.000	0	0	0	0
181. 166. 10.000 10.000 10.000	0	0	0	0
182. 167. 10.000 10.000 10.000	0	0	0	0
183. 168. 10.000 10.000 10.000	0	0	0	0
184. 169. 10.000 10.000 10.000	0	0	0	0
185. 170. 10.000 10.000 10.000	0	0	0	0
186. 171. 10.000 10.000 10.000	0	0	0	0
187. 172. 10.000 10.000 10.000	0	0	0	0
188. 173. 10.000 10.000 10.000	0	0	0	0
189. 174. 10.000 10.000 10.000	0	0	0	0
190. 175. 10.000 10.000 10.000	0	0	0	0
191. 176. 10.000 10.000 10.000	0	0	0	0
192. 177. 10.000 10.000 10.000	0	0	0	0
193. 178. 10.000 10.000 10.000	0	0	0	0
194. 179. 10.000 10.000 10.000	0	0	0	0
195. 180. 10.000 10.000 10.000	0	0	0	0
196. 181. 10.000 10.000 10.000	0	0	0	0
197. 182. 10.000 10.000 10.000	0	0	0	0
198. 183. 10.000 10.000 10.000	0	0	0	0
199. 184. 10.000 10.000 10.000	0	0	0	0
200. 185. 10.000 10.000 10.000	0	0</td		

MO - manganese oxide

M = muscovite      O = organic material  
 S = silica            B = biotite  
 L = limonite        Q = quartz

**CORE ANALYSIS SUMMARY SHEET**  
**SEDIMENT SIZE AND COMPOSITION**

NICEL

DATE 7 Nov. 1963

Sample No. 11000-14B

1. SAMPLE NO. 11000-14B

2. DATE TAKEN (DAY, MO., YR.) 13/5/63

3. CORE LENGTH (cm) 45.40

4. BORE DEPTH (m) 45.40

5. CORE ROTATION (cm) 145.7533

6. CORE LENGTH (cm) 45.40

7. CORE ROTATION (cm) 145.7533

8. CORE ROTATION (cm) 145.7533

9. CORE ROTATION (cm) 145.7533

10. SEDIMENT GRAIN SIZE

D - 5

S - 30.5 - N

M - 49.4 - M

L - 49.4 - L

11. GRAIN SIZE

D - 5

S - 30.5 - N

M - 49.4 - M

L - 49.4 - L

12. GRAIN SIZE

D - 5

S - 30.5 - N

M - 49.4 - M

L - 49.4 - L

13. GRAIN SIZE

D - 5

S - 30.5 - N

M - 49.4 - M

L - 49.4 - L

14. GRAIN SIZE

D - 5

S - 30.5 - N

M - 49.4 - M

L - 49.4 - L

15. GRAIN SIZE

D - 5

S - 30.5 - N

M - 49.4 - M

L - 49.4 - L

16. GRAIN SIZE

D - 5

S - 30.5 - N

M - 49.4 - M

L - 49.4 - L

17. GRAIN SIZE

D - 5

S - 30.5 - N

M - 49.4 - M

L - 49.4 - L

18. GRAIN SIZE

D - 5

S - 30.5 - N

M - 49.4 - M

L - 49.4 - L

19. GRAIN SIZE

D - 5

S - 30.5 - N

M - 49.4 - M

L - 49.4 - L

20. GRAIN SIZE

D - 5

S - 30.5 - N

M - 49.4 - M

L - 49.4 - L

21. GRAIN SIZE

D - 5

S - 30.5 - N

M - 49.4 - M

L - 49.4 - L

22. GRAIN SIZE

D - 5

S - 30.5 - N

M - 49.4 - M

L - 49.4 - L

23. GRAIN SIZE

D - 5

S - 30.5 - N

M - 49.4 - M

L - 49.4 - L

24. GRAIN SIZE

D - 5

S - 30.5 - N

M - 49.4 - M

L - 49.4 - L

25. GRAIN SIZE

D - 5

S - 30.5 - N

M - 49.4 - M

L - 49.4 - L

26. GRAIN SIZE

D - 5

S - 30.5 - N

M - 49.4 - M

L - 49.4 - L

27. GRAIN SIZE

D - 5

S - 30.5 - N

M - 49.4 - M

L - 49.4 - L

28. GRAIN SIZE

D - 5

S - 30.5 - N

M - 49.4 - M

L - 49.4 - L

29. GRAIN SIZE

D - 5

S - 30.5 - N

M - 49.4 - M

L - 49.4 - L

30. GRAIN SIZE

D - 5

S - 30.5 - N

M - 49.4 - M

L - 49.4 - L

31. GRAIN SIZE

D - 5

S - 30.5 - N

M - 49.4 - M

L - 49.4 - L

32. GRAIN SIZE

D - 5

S - 30.5 - N

M - 49.4 - M

L - 49.4 - L

33. GRAIN SIZE

D - 5

S - 30.5 - N

M - 49.4 - M

L - 49.4 - L

34. GRAIN SIZE

D - 5

S - 30.5 - N

M - 49.4 - M

L - 49.4 - L

35. GRAIN SIZE

D - 5

S - 30.5 - N

M - 49.4 - M

L - 49.4 - L

36. GRAIN SIZE

D - 5

S - 30.5 - N

M - 49.4 - M

L - 49.4 - L

37. GRAIN SIZE

D - 5

S - 30.5 - N

M - 49.4 - M

L - 49.4 - L

38. GRAIN SIZE

D - 5

S - 30.5 - N

M - 49.4 - M

L - 49.4 - L

39. GRAIN SIZE

D - 5

S - 30.5 - N

M - 49.4 - M

L - 49.4 - L

40. GRAIN SIZE

D - 5

S - 30.5 - N

M - 49.4 - M

L - 49.4 - L

41. GRAIN SIZE

D - 5

S - 30.5 - N

M - 49.4 - M

L - 49.4 - L

42. GRAIN SIZE

D - 5

S - 30.5 - N

M - 49.4 - M

L - 49.4 - L

43. GRAIN SIZE

D - 5

S - 30.5 - N

M - 49.4 - M

L - 49.4 - L

44. GRAIN SIZE

D - 5

S - 30.5 - N

M - 49.4 - M

L - 49.4 - L

45. GRAIN SIZE

D - 5

S - 30.5 - N

M - 49.4 - M

L - 49.4 - L

46. GRAIN SIZE

D - 5

S - 30.5 - N

M - 49.4 - M

L - 49.4 - L

47. GRAIN SIZE

D - 5

S - 30.5 - N

M - 49.4 - M

L - 49.4 - L

48. GRAIN SIZE

D - 5

S - 30.5 - N

M - 49.4 - M

L - 49.4 - L

49. GRAIN SIZE

D - 5

S - 30.5 - N

M - 49.4 - M

L - 49.4 - L

50. GRAIN SIZE

D - 5

S - 30.5 - N

M - 49.4 - M

L - 49.4 - L

51. GRAIN SIZE

D - 5

S - 30.5 - N

M - 49.4 - M

L - 49.4 - L

52. GRAIN SIZE

D - 5

S - 30.5 - N

M - 49.4 - M

L - 49.4 - L

53. GRAIN SIZE

D - 5

S - 30.5 - N

M - 49.4 - M

L - 49.4 - L

54. GRAIN SIZE

D - 5

S - 30.5 - N

M - 49.4 - M

L - 49.4 - L

55. GRAIN SIZE

D - 5

S - 30.5 - N

M - 49.4 - M

L - 49.4 - L

56. GRAIN SIZE

D - 5

S - 30.5 - N

M - 49.4 - M

L - 49.4 - L

57. GRAIN SIZE

D - 5

S - 30.5 - N

M - 49.4 - M

L - 49.4 - L

58. GRAIN SIZE

D - 5

S - 30.5 - N

M - 49.4 - M

L - 49.4 - L

59. GRAIN SIZE

D - 5

S - 30.5 - N

M - 49.4 - M

L - 49.4 - L

60. GRAIN SIZE

D - 5

S - 30.5 - N

M - 49.4 - M

CORE ANALYSIS SUMMARY SHEET  
SEDIMENT SIZE AND COMPOSITION

MANOOGAN-CHUKIKA DIA 1-53

ANALYSTED AT NCEL

DATE 6 Nov. 1963

1. CRUISE NO.	D-5	4. SAMPLE NO.	B-5 - 15B	1. TYPE CORE KILLER/PIERS PISTON
2. LATITUDE	37° 26' 21" N	5. DATE TAKEN (DAY, MO., YR.)	14/5/63	2. CORE LENGTH (cm) 105
3. LONGITUDE	127° 48' 11" W	6. WATER DEPTH IN	4.600	3. CORE FESTINATION FROM MDT RECORDED
10. LABORATORY NUMBER	D-3	7. C-9	12-15	4. C-9
11. SUBSAMPLE DEPTH IN CORE (cm)	0.0-7.6	8. 15.2-22.9	10.5-32.1	5. 15.7-53.3
12. COLOR (6SA ROCK COLOR CHART) FIELD LAB DETERMINATION	GY4/2	9. 10Y6/2	5G 6/1	6. 10D-68.6
13. ORIGIN	H2S	10. 10Y4/2	10Y4/2	7. 76.2-83.8
14. SIZE & COMPOSITION ANALYSIS	H2S	11. H2S	H2S	8. 94.4-99.1
A. > 4 mm (in) (%)	0	12. H2S	H2S	9. 56.6/1
B. 4 to 2 mm (%)	0	13. H2S	H2S	L
C. 2 to 1 mm (%)	0	14. H2S	H2S	H2S
D. 1 to .500 mm (%)	0.5			
E. .500 to .250 mm (%)	0.4			
F. .250 to .125 mm (%)	0.2			
G. .125 to .062 mm (%)	0.7			
H. .062 to .031 mm (%)	0.5			
I. .031 to .016 mm (%)	2.7			
J. .016 to .008 mm (%)	7.0			
K. .008 to .004 mm (%)	10.0			
L. .004 to .002 mm (%)	15.0			
M. .002 to .001 mm (%)	22.0			
N. .001 mm (%)	41.0			
O. Median Diameter (mm)	0.0012	0.0016	0.0013	0.0011
P. Sorting Coefficient	—	—	—	0.0180
Q. Skewness	—	—	—	0.0155
R. Standard Deviation (mm)	—	—	—	—
S. Sediment Type	CLAY	CLAY	CLAY	CLAY
T. Dominant Minerals *	Si	Si- Al- L- WF	Si- Al- L- TR	Si- Al- TR
Plus 32% Fraction	32%	32%	32%	32%
U. Secondary Minerals	Si	Si- TR	Si- TR	Si- TR
V. Collected Samples	Si	Si	Si	Si
W. Sample Code	Si	Si	Si	Si
X. Remarks	—	—	—	—
Y. Q - quartz	—	—	—	—
Z. S - silica	—	—	—	—
AA. L - limonite	—	—	—	—
BB. B - biotite	—	—	—	—
CC. WF - wood fragment	—	—	—	—
DD. F - ferromagnesians	—	—	—	—
EE. O - organic material	—	—	—	—

**SEDIMENT SIZE AND COMPOSITION**

ANALYZED BY NCEL  
DATE 8 Nov. 1953

1. CRUISE NO. <u>D-5</u>	4. SAMPLE NO. <u>B5-16B</u>	5. DATE TAKEN (DAY, MO., YR.) <u>14/5/53</u>	6. WATER DEPTH (m) <u>46.05</u>	7. TYPE CORE <u>STANDARD</u>	8. CORE LENGTH (cm) <u>150</u>	9. CORE POSITION (cm) <u>4605</u>
2. LATITUDE <u>37° 25' 7" N</u>						
3. LONGITUDE <u>028° 00' 0" W</u>						
10. LABORATORY NUMBER	10-3	6-9	12-5			
11. SUBSAMPLE DEPTH IN CORE (cm)	00-7.6	52-229	305-384			
12. COLOR (MCA BECK COLOR CHART) <input checked="" type="checkbox"/> FIELD <input type="checkbox"/> LAB DETERMINATION	DXR 4/2	DXR 4/2	DXR 4/2			
13. ODEK	H <sub>2</sub> S	L	L			
14. SIZE & COMPOSITION ANALYSIS						
15. > 1 mm (g)	0	0	0			
16. 4 to 2 mm (g)	0	0	0			
17. 2 to 1 mm (g)	0	0	0			
18. 1 to .500 mm (g)	0	0	0			
19. .500 to .250 mm (g)	0	0	0			
20. .250 to .125 mm (g)	0	0	0			
21. .125 to .062 mm (g)	0.7	4.9	5.1			
22. .062 to .031 mm (g)	1.3	12.5	16.0			
23. .031 to .016 mm (g)	7.0	14.0	13.5			
24. .016 to .008 mm (g)	7.0	14.0	12.0			
25. .008 to .004 mm (g)	10.0	12.0	10.0			
26. .004 to .002 mm (g)	14.0	9.0	8.0			
27. .002 to .001 mm (g)	18.0	7.5	6.5			
28. <.001 mm (g)	46.0	23.5	23.5			
29. Sieve Losses (mm)	0.00111	0.0070	0.0065			
30. Sieving Coefficient	—	—	—			
31. Stannous	—	—	—			
32. Standard Deviation (mm)	—	—	—			
33. Sediment Type	CLAY SILTY CLAY	SILTY CLAY	SILTY CLAY			
34. Sediment Minerals *	J-S-S P-15 S-T-R	Q-70 S-20 B-10	A-50 S-15 B-5			
Plus 325 Fraction						
35. Secondary Minerals	L-T-R	O-T-R	M-T-R O-T-R			
36. Catch System	4.55	6.28	5.01			
37. Grain Size	—	—	—			
38. Remarks	* S - silica P - pyrite B - biotite	L - limonite Q - quartz O - organic material				

## CORE ANALYSIS SUMMARY SHEET

### SEDIMENT SIZE AND COMPOSITION

AWARDED IN DATE 15 Nov. 1963 NCEI

**CORE ANALYSIS SUMMARY SHEET**  
**SEDIMENT SIZE AND COMPOSITION**

ANALYZED BY NCEL

DATE 19 NOV. 1963

MANUSCRIPT NUMBER 61-181

1. CRUISE NO.		4. SAMPLE NO.		5. DATE TAKEN (DAY, MO., YR.)		6. WATER DEPTH (m)		7. TYPE CORE KULLENBERG		8. CORE LENGTH (cm)		9. CORE DIAMETER (cm) NOT	
2. LATITUDE	37° 0' 0.6"	7.527.0	W	"	"	4.000							
3. LONGITUDE	127° 52' 7.0" W			12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	
4. DEPTHS	0.0-1.0	1.0-2.0	2.0-3.0	3.0-4.0	4.0-5.0	5.0-6.0	6.0-7.0	7.0-8.0	8.0-9.0	9.0-10.0	10.0-11.0	11.0-12.0	
5. SUSPENDED LENGTH IN CORE (cm)	0.0-7.6	7.6-12.9	12.9-28.1	28.1-53.3	53.3-68.1	68.1-83.4	83.4-99.1	99.1-114.2	114.2-132.1	132.1-149.0	149.0-165.9	165.9-182.7	
6. COLOR 1554 ROCK COLOR CHART	GY 3/2	GY 6/4	DYR 4/2	DYR 4/2	DYR 4/2	DYR 4/2	DYR 4/2	DYR 4/2	DYR 4/2	DYR 4/2	DYR 4/2	DYR 4/2	
7. FIELD CLASSIFICATION	L	L	L	L	L	L	L	L	L	L	L	L	
8. DGP	H <sub>2</sub> S	H <sub>2</sub> S	H <sub>2</sub> S	H <sub>2</sub> S	H <sub>2</sub> S	H <sub>2</sub> S	H <sub>2</sub> S	H <sub>2</sub> S	H <sub>2</sub> S	H <sub>2</sub> S	H <sub>2</sub> S	H <sub>2</sub> S	
9. SIZE & CONCENTRATION ANALYSIS													
a. > 4	(+) (+)	(+)	(+)	(+)	(+)	(+)	(+)	(+)	(+)	(+)	(+)	(+)	
b. 1 to 2	(+)	(+)	(+)	(+)	(+)	(+)	(+)	(+)	(+)	(+)	(+)	(+)	
c. 2 to 1	(+)	(+)	(+)	(+)	(+)	(+)	(+)	(+)	(+)	(+)	(+)	(+)	
d. 1 to .500	(+)	(+)	(+)	(+)	(+)	(+)	(+)	(+)	(+)	(+)	(+)	(+)	
e. .500 to .250	(+)	(+)	(+)	(+)	(+)	(+)	(+)	(+)	(+)	(+)	(+)	(+)	
f. .250 to .125	(+)	(+)	(+)	(+)	(+)	(+)	(+)	(+)	(+)	(+)	(+)	(+)	
g. .175 to .062	(+)	(+)	(+)	(+)	(+)	(+)	(+)	(+)	(+)	(+)	(+)	(+)	
h. .050 to .021	(+)	(+)	(+)	(+)	(+)	(+)	(+)	(+)	(+)	(+)	(+)	(+)	
i. .011 to .016	(+)	(+)	(+)	(+)	(+)	(+)	(+)	(+)	(+)	(+)	(+)	(+)	
j. .016 to .003	(+)	(+)	(+)	(+)	(+)	(+)	(+)	(+)	(+)	(+)	(+)	(+)	
k. .009 to .003	(+)	(+)	(+)	(+)	(+)	(+)	(+)	(+)	(+)	(+)	(+)	(+)	
l. .004 to .002	(+)	(+)	(+)	(+)	(+)	(+)	(+)	(+)	(+)	(+)	(+)	(+)	
m. .002 to .001	(+)	(+)	(+)	(+)	(+)	(+)	(+)	(+)	(+)	(+)	(+)	(+)	
n. <.001	(+)	(+)	(+)	(+)	(+)	(+)	(+)	(+)	(+)	(+)	(+)	(+)	
o. Radiation Generators	(+)	(+)	(+)	(+)	(+)	(+)	(+)	(+)	(+)	(+)	(+)	(+)	
p. Coring Coefficients	-	-	-	-	-	-	-	-	-	-	-	-	
q. Shrinkage	-	-	-	-	-	-	-	-	-	-	-	-	
r. Standard Deviation (cm)	-	-	-	-	-	-	-	-	-	-	-	-	
s. Sediment Type	CLAY	CLAY	CLAY	CLAY	CLAY	CLAY	CLAY	CLAY	CLAY	CLAY	CLAY	CLAY	
t. Organic Minerals %	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	
u. Plus 32.5 Fraction	R-Tu	R-Tu	R-Tu	R-Tu	R-Tu	R-Tu	R-Tu	R-Tu	R-Tu	R-Tu	R-Tu	R-Tu	
v. Secondary Dissolve (%)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	
w. Gelation Factor	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	
x. Gelation Factor	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	
y. Gelation Factor	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	
z. Gelation Factor	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	
aa. K - S - Silica													
ab. MO - manganese oxide													
ac. Q - quartz													
ad. B - biotite													

O - organic material  
Q - quartz  
B - biotite

**OCEAN ANALYSIS SUMMARY SHEET**  
**SEDIMENT SIZE AND COMPOSITION**

ANALYST: J. R. COOPER  
DATE: 3/1/64

NAVYLANDS-BR-32-A Form 1-63

1. CRUISE NO.	D-5	4. SAMPLE NO.	B5-63	5. DATE TAKEN (DAY, MO., YR.)	16/5/63	6. WATER DEPTH (ft.)	25/7	7. DEPTHS (ft.)	20-25	8. SEDIMENT TYPE	9. SEDIMENT
2. LATITUDE	37° 07.8' N	"	"	"	"	"	"	"	"	"	"
3. LONGITUDE	127° 07.9' W	"	"	"	"	"	"	"	"	"	"
10. LABORATORY NUMBER	0-3	6-9	12-15	18-21	24-27	30-33	36-39	42-45	48-51	54-57	60-63
11. SUBSAMPLE DEPTH IN CORE (cm)	0.0-7.6	5.2-22.9	30.5-38.1	45.7-53.3	50.0-56.6	52.0-59.6	54.4-59.2	57.0-62.4	59.0-64.2	62.0-67.4	64.0-69.4
12. COLOR (GSA ROCK COLOR CHART)	5Y 5/2	10Y 4/2	5Y 5/2	10Y 4/2	10Y 4/2	10Y 4/2	10Y 4/2	10Y 4/2	10Y 4/2	10Y 4/2	10Y 4/2
13. ODOR	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE
14. SIZE & COMPOSITION ANALYSIS											
A. > 4 mm (mm) (%)	0	0	0	0	0	0	0	0	0	0	0
B. 4 to 2 mm (%)	0	0	0	0	0	0	0	0	0	0	0
C. 2 to 1 mm (%)	0	0	0	0	0	0	0	0	0	0	0
D. 1 to .500 mm (%)	0	0	0	0	0	0	0	0	0	0	0
E. .500 to .250 mm (%)	0	0	0	0	0	0	0	0	0	0	0
F. .250 to .125 mm (%)	0.4	0	0	0	0.5	6.3	0.3	0.2	0	0	0
G. .125 to .062 mm (%)	1.4	0	0	0	0.4	4.4	1.6	0.5	0	0.2	0
H. .062 to .031 mm (%)	4.2	0.1	0.1	0	0.4	3.5	4.6	1.1	0	0.3	0.1
I. .031 to .016 mm (%)	10.0	0.4	0.2	0.1	7.8	7.0	8.8	2.8	0.1	0.4	0.2
J. .016 to .008 mm (%)	11.7	5.0	3.9	1.5	15.2	9.2	9.0	7.7	0.1	3.5	1.7
K. .008 to .004 mm (%)	11.0	12.2	11.5	13.7	10.3	12.7	11.9	8.0	12.2	11.3	12.9
L. .004 to .002 mm (%)	10.3	12.8	13.4	15.7	12.1	10.0	9.7	12.0	15.6	15.1	13.2
M. .002 to .001 mm (%)	10.0	13.7	10.7	19.4	11.8	10.2	8.4	12.1	19.7	18.4	13.6
N. <.001 mm (%)	41.0	55.8	54.5	57.8	38.0	37.8	44.2	51.7	52.5	49.8	50.0
O. median diameter (mm)	0.0019	0.0007	0.0008	0.0009	0.0020	0.0029	0.0017	0.0008	0.0010	0.0010	0.0009
P. sorting coefficient	-	-	-	-	-	-	-	-	-	-	-
Q. standard deviation	-	-	-	-	-	-	-	-	-	-	-
R. standard deviation (%)	-	-	-	-	-	-	-	-	-	-	-
S. sediment type	CLAY	CLAY	CLAY	CLAY	CLAY	CLAY	CLAY	CLAY	CLAY	CLAY	CLAY
T. magnetic minerals (%)	5-50	5-70	5-85	5-95	5-90	5-95	5-95	5-100	5-95	5-95	5-95
U. plus 32% Fraction	5-10	5-10	5-10	5-10	5-10	5-10	5-10	5-10	5-10	5-10	5-10
V. heavy minerals (%)	5-70	5-70	5-70	5-70	5-70	5-70	5-70	5-70	5-70	5-70	5-70
W. glauconite (%)	5-40	5-70	5-70	5-70	5-70	5-70	5-70	5-70	5-70	5-70	5-70
X. organic (%)	8.49	7.0	7.47	3.88	1.97	5.79	4.25	5.12	1.87	1.96	6.72
Y. quartz (%)	-	-	-	-	-	-	-	-	-	-	-
Z. biotite (%)	-	-	-	-	-	-	-	-	-	-	-
A. magnetite (%)	-	-	-	-	-	-	-	-	-	-	-
B. muscovite (%)	-	-	-	-	-	-	-	-	-	-	-
C. carbonate (%)	-	-	-	-	-	-	-	-	-	-	-
D. glauconite (%)	-	-	-	-	-	-	-	-	-	-	-

M - organic      O - manganese oxide  
 MA - magnetite      Q - quartz  
 C - carbonate      G - glauconite  
 H - hematite

**CORE ANALYSIS SUMMARY SHEET**  
**SEDIMENT SIZE AND COMPOSITION**

ANALYST BY \_\_\_\_\_  
DATE 3 Jan. 1964

NOVOCARD - NOVOCARD FORM 1-31

1. CRUISE NO.	D-5	4. SAMPLE NO.	25-19B	7. CORE LOCAT.	EN 1000
2. LATITUDE	37° 07' N	5. DATE TAKEN (DAY, MO., YR.)	16/5/63	8. CORE LENGTH (cm)	—
3. LONGITUDE	127° 07' 9" W	6. WATER DEPTH (m)	42.5/7	9. VARIATION (°)	—
10. LABORATORY NUMBER	73-81				
11. SURSAMPLE DEPTH IN CORE (cm)	/98-206				
12. COLOR (GSA ROCK COLOR CHART) [FIELD] [LAB DETERMINATION]	SGX4/1 L				
13. ODOR	None				
14. SIZE & COMPOSITION ANALYSIS					
a. > 4 mm (S)	0				
b. .4 to .2 mm (S)	0				
c. .2 to .1 mm (S)	0				
d. .1 to .050 mm (S)	0				
e. .050 to .020 mm (S)	0				
f. .020 to .012 mm (S)	0				
g. .012 to .002 mm (S)	0.2				
h. .002 to .001 mm (S)	0.5				
i. .001 to .0005 mm (S)	0.6				
j. .0005 to .000 mm (S)	6.4				
k. .000 to .0003 mm (S)	13.6				
l. .0003 to .0002 mm (S)	12.2				
m. .0002 to .0001 mm (S)	11.5				
n. <.0001 mm (S)	55.0				
o. Median Diameter (mm)	0.00008				
p. Sorting Coefficient	—				
q. Sharpness	—				
r. Standard Deviation (mm)	—				
s. Sediment Type	CLAY				
t. Dominant Minerals *	(S) A-B-C Plus 325 Fraction M-H-R-S				
u. Secondary Minerals	(S) J-Z L-J				
v. Calcareous Content	(S) 1.9%				
w. Fossils Found	(S) —				
x. Remarks	—				
15. REVERSE	—				

**CORE ANALYSIS SUMMARY SHEET**  
**SEDIMENT SIZE AND COMPOSITION**

ANALYZED BY \_\_\_\_\_

DATE 19 Dec 63

NAVOC ISLAND-SEPT-THREE-A REW 1-1-63

1. CRUISE NO.	2-5	4. SAMPLE NO.	BS - 208	1. TYPE CORE	EAVING
2. LATITUDE	37° 0' 25.8" N	5. DATE OPEN (DAY, MO., YR.)	1/5/63	2. CORE LENGTH (cm)	84
3. LONGITUDE	126° 51' 7" W	6. WATER DEPTH (m)	4462	3. CORE PENETRATION (cm) NOT RETAINED	
10. LABORATORY NUMBER	D-3	7. 12-15	12-21	4. 24-27	30-33
11. SUBSAMPLE DEPTH IN CORE (cm)	40-72	13. 30-52	30-53	5. 64-67	72-75
12. COLOR (GSA ROCK COLOR CHART)	5Y5/2	14. 56Y4/1	56Y4/1	6. 56Y4/1	
FIELD <input checked="" type="checkbox"/> LAB DETERMINATION	L	15. L	L	7. L	
13. OODR	H <sub>2</sub> S	16. H <sub>2</sub> S	H <sub>2</sub> S	8. H <sub>2</sub> S	H <sub>2</sub> S
14. SIZE & COMPOSITION ANALYSIS					
a. > 4 mm (S)	0	0	0	0	0
b. 4 to 10.2 mm (S)	0	0	0	0	0
c. 2 to 2.1 mm (S)	0	0	0	0	0
d. 1 to .500 mm (S)	0	0	0	0	0
e. .500 to .250 mm (S)	0	0	0	0	0
f. .250 to .125 mm (S)	0	0.1	0	0.3	0
g. .125 to .062 mm (S)	0.3	0.3	0.2	0.4	0.2
h. .062 to .031 mm (S)	29	1.3	0.6	0.4	0.6
i. .031 to .016 mm (S)	10.3	5.6	1.9	1.3	2.2
j. .016 to .008 mm (S)	12.5	7.4	12.5	7.1	21.8
k. .008 to .004 mm (S)	10.8	10.9	14.6	14.7	11.9
l. .004 to .002 mm (S)	10.3	12.4	11.4	15.9	9.6
m. .002 to .001 mm (S)	9.9	14.3	9.5	17.1	8.3
n. < .001 mm (S)	43.0	47.7	50.3	42.8	38.4
o. Median Diameter (mm)	0.0017	0.0011	0.0009	0.0014	0.0026
p. Sorting Coefficient	-	-	-	-	-
q. Skewness	-	-	-	-	-
r. Standard Deviation (mm)	-	-	-	-	-
s. Sediment Type	STONY CLAY	STONY CLAY	CLAY	STONY CLAY	CLAY
t. Dominant Minerals *	101	5-95	5-94	5-95	2-30
plus 325 fraction	101	B-2	B-3	B-4	N-10
u. Secondary Minerals	101	L-1	B-2	A-1	B-20
v. Calcium Carbonate	101	0-1	L-1	L-1	G-3
w. Organic Content	101	-	-	-	S-1
x. REMARKS * S - siliceous microfossils					0 - organic
					MO - manganese oxide
					B - biotite
					L - limonite
					M - muscovite
					G - glauconite
					Q - quartz

**CORE ANALYSIS SUMMARY SHEET**

ANALYSIS

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NAVOX UNDERSTANDING 1-62

**CORE ANALYSIS SUMMARY SHEET**  
**SEDIMENT SIZE AND COMPOSITION**

ANALYZED BY NOCEL

DATE 20 Dec 63

MANOOCIAND-1963-04 mm-1-81

1. CRUISE NO.	1 - 5	2. LATITUDE	36° 47' N	3. LONGITUDE	127° 07' W	4. DATE TAKEN (DAY NO.)	17/5/63	5. SAMPLE NO.	35-22B	6. CORE LENGTH (cm)	45.35	7. CORE PENETRATION (cm)	45.35	8. CORE LENGTH (cm)	224
9. LABORATORY NUMBER	10-3	10-5	12-5	18-21	24-27	30-35	34-39	42-45	48-51	54-57	60-63	66-69	72-75		
10. SUBSAMPLE DEPTH IN CORE (cm)	10.74	52.279	70.538	145.7-53.3	16.0-68.0	76.2-83.2	91.4-99.1	107.4	122.10	137.45	152.161	168.175	182.190		
11. COLOR (GSA ROCK COLOR CHART)	GY6/2	DY6/2	DYR6/2	DYR6/2	DYR6/2	DYR6/2	DYR6/2	DYR6/2	DYR6/2	DYR6/2	DYR6/2	DYR6/2	DYR6/2		
12. FIELD LAB DETERMINATION	L	L	L	L	L	L	L	L	L	L	L	L	L		
13. COLOR	H2S	H2S	H2S	H2S	H2S	H2S	H2S	H2S	H2S	H2S	H2S	H2S	H2S		
14. SIZE & COMPOSITION ANALYSIS															
a. 4	0	0	0	0	0	0	0	0	0	0	0	0	0		
b. 4	0	0	0	0	0	0	0	0	0	0	0	0	0		
c. 2	0	0	0	0	0	0	0	0	0	0	0	0	0		
d. 2	0	0	0	0	0	0	0	0	0	0	0	0	0		
e. 500	0	0	0	0	0	0	0	0	0	0	0	0	0		
f. 250	0	0	0	0	0	0	0	0	0	0	0	0	0		
g. 125	0	0	0	0	0	0	0	0	0	0	0	0	0		
h. 62	0	0	0	0	0	0	0	0	0	0	0	0	0		
i. 31	0	0	0	0	0	0	0	0	0	0	0	0	0		
j. 16	0	0	0	0	0	0	0	0	0	0	0	0	0		
k. 8	0	0	0	0	0	0	0	0	0	0	0	0	0		
l. 4	0	0	0	0	0	0	0	0	0	0	0	0	0		
m. .002	0	0	0	0	0	0	0	0	0	0	0	0	0		
n. .001	0	0	0	0	0	0	0	0	0	0	0	0	0		
o. Median Diameter (mm)	0.0009	0.0007	0.0008	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0007	0.0010	0.0017	0.0028		
p. Sorting Coefficient	-	-	-	-	-	-	-	-	-	-	-	-	-		
q. Sharness	-	-	-	-	-	-	-	-	-	-	-	-	-		
r. Standard Deviation (mm)	-	-	-	-	-	-	-	-	-	-	-	-	-		
s. Sediment Type	CLAY	CLAY	STONY CLAY	CLAY	CLAY	CLAY	CLAY	CLAY	CLAY	CLAY	CLAY	CLAY	CLAY		
t. Dominant Minerals *	S-96	BD-80	S-93	G-93	S-45	S-55	S-50	S-45	G-95	G-95	G-95	G-95	G-95		
Plus 325 fraction	L-2	S-17	B-3	S-6	G-45	G-40	S-43	O-2	O-2	O-2	O-1	M-3	M-2		
v. Secondary Minerals	BD-2	L-3	O-2	B-2	O-5	B-2	O-5	BD-1	S-1	S-1	S-2	S-3	S-2		
w. Calcium Carbonate	MA-TK	B-TK	M-2	M-2	B-3	O-2	B-2	S-1	S-1	S-1	M-1	B-2	S-1		
x. Organic Content	8.36	9.17	6.90	4.78	4.22	7.43	7.52	4.33	5.15	4.55	3.49	4.22	4.52		

15. REFERENCES \* S - siliceous microfossils MA - magnetite O - organic  
 B - biotite M - muscovite  
 L - limonite Q - quartz G - glauconite  
 BO - black opaques

**CORE ANALYSIS SUMMARY SHEET**  
**SEDIMENT SIZE AND COMPOSITION**

ANALYST BY NCEI

DATE 20 Dec 63

SAMPLE NUMBER		4. SAMPLE NO.	5. DATE TAKEN (DAY, MO., YR.)	6. WATER DEPTH (m)	7. TEST COREN	8. CORE LENGTH (cm)	9. CORE POSITION (cm) FROM RECORDED
1. LOCALITY	No.	D-5	"	"	"	"	"
2. LATITUDE	36° 9' 47.7" N	"	"	"	"	"	"
3. LONGITUDE	27° 17.6' W	"	"	"	"	"	"
4. DEPTH IN CORE (cm)	78.51	64.67	"	"	"	"	"
5. ROCK COLOR CHART	19.8-20.6	21.5-22.1	"	"	"	"	"
6. LAB DETERMINATION	5GY 2/1	5GY 2/1	"	"	"	"	"
7. FIDELITY	4.25	4.25	"	"	"	"	"
8. JOHN	H2S	H2S	"	"	"	"	"
IN SEDIMENTATION ANALYSIS							
9. SEDIMENT	4 (cm) (g)	0	0	0	0	0	0
10. 2 mm (g)	0	0	0	0	0	0	0
11. 1 mm (g)	0	0	0	0	0	0	0
12. 0.25 mm (g)	0	0	0	0	0	0	0
13. 0.125 mm (g)	0	0.1	0	0	0	0	0
14. 0.062 mm (g)	0	0	0	0	0	0	0
15. 0.031 mm (g)	0.1	0.1	0.1	0.1	0.1	0.1	0.1
16. 0.016 mm (g)	0	0	0	0	0	0	0
17. 0.008 mm (g)	0	0	0	0	0	0	0
18. 0.004 mm (g)	0	0	0	0	0	0	0
19. 0.002 mm (g)	0	0	0	0	0	0	0
20. 0.001 mm (g)	0	0	0	0	0	0	0
21. MUD	0.009	0.009	0.009	0.009	0.009	0.009	0.009
22. SEDIMENT COEFFICIENT	CLAY	CLAY	CLAY	CLAY	CLAY	CLAY	CLAY
23. SEDIMENT SIZE	—	—	—	—	—	—	—
24. STANDARD DEVIATION (cm)	—	—	—	—	—	—	—
25. SEDIMENT TYPE	—	—	—	—	—	—	—
26. SEDIMENT MINERALS	(g)	Q-98	Q-99	Q-99	Q-99	Q-99	Q-99
27. DESTRUCTIVE MINERALS	(g)	O-1	O-1	O-1	O-1	O-1	O-1
28. PLATY CLAY MINERALS	(g)	S-1	S-1	S-1	S-1	S-1	S-1
29. GROWTH CRUSTS	(g)	4.07	4.04	4.07	4.04	4.07	4.04
30. OTHER	(g)	—	—	—	—	—	—
31. REMARKS							

**CORE ANALYSIS SUMMARY SHEET  
SEDIMENT SIZE AND COMPOSITION**

NCEL

30 Dec 63

NAVOCANDER 1974-1, Item 1-31									
CRUISE NO.		SAMPLE NO.		TYPE (CORE LENGTH)		ELEVATION		DATE TAKEN (DAY, MO., YR.)	
ATTICE	ATTICE	456	N	18	15	63	175	18	15/63
1. DRILLING TIME	27	20.8	W	4.897	4.897	4.897	4.897	4.897	4.897
2. LABORATORY NUMBER	J-3	6.9	12.5	.8-21	24-27	30-33	36-39	42-45	48-51
3. SUB-SAMPLE DEPTH IN CORE (cm)	0.0-7.6	5.2-22.9	30.5-38.1	45.7-53.1	61.0-68.6	72.2-83.8	91.4-99.1	107.1-114	122.1-130
4. COLOR (Munsell Rock Color Chart)	10YR4/2	10YR4/2	5Y3/2	5Y6/4	10Y4/2	10Y6/2	10Y4/2	10Y4/2	10Y4/2
5. F.F. & S. GASS DETERMINATION	L	L	L	L	L	L	L	L	L
6. DENSITY	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE
7. SIZE & COMPOSITION ANALYSIS									
8. 1	1	1	1	1	1	1	1	1	1
b. 1	2	2	2	2	2	2	2	2	2
c. 2	3	3	3	3	3	3	3	3	3
d. 1	10	500	mm	10	10	10	10	10	10
e. 500	10	250	mm	10	10	10	10	10	10
f. .250	10	.125	mm	10	10	10	10	10	10
g. .125	10	.062	mm	10	10	10	10	10	10
h. .062	10	.031	mm	10	10	10	10	10	10
i. .031	10	.016	mm	10	10	10	10	10	10
j. .016	10	.008	mm	10	10	10	10	10	10
k. .008	10	.004	mm	10	10	10	10	10	10
l. .004	10	.002	mm	10	10	10	10	10	10
m. .002	10	.001	mm	10	10	10	10	10	10
n. .001	10	.001	mm	10	10	10	10	10	10
o. HODGE DIAMETER (mm)	3.0010	0.0008	0.0015	0.0011	0.0010	0.0007	0.0004	0.0033	0.0016
p. SORTING COEFFICIENT	-	-	-	-	-	-	-	-	-
q. SHAPNESS	-	-	-	-	-	-	-	-	-
r. STANDARD DEVIATION (mm)	-	-	-	-	-	-	-	-	-
s. SEDIMENT TYPE	CLAY	CLAY	CLAY	CLAY	CLAY	CLAY	CLAY	CLAY	CLAY
t. DOMINANT MINERALS *	S-99 L-1	S-100 B-3	S-99 B-3	S-95 S-4	S-95 B-3	S-95 B-2	S-95 B-1	S-95 B-1	S-95 B-1
plus 325 fraction	BO-78	BD-2	BD-2	BD-2	BD-2	BD-2	BD-2	BD-2	BD-2
u. Secondary minerals	101	8-72	8-72	8-72	8-72	8-72	8-72	8-72	8-72
v. Calcium carbonate	8.51	6.54	6.07	5.63	4.06	5.04	3.45	2.84	4.61

22. *rennes* \* s - siliceous microfossils

S - siliceous intercalations      Q - quartz  
 L - limonite      O - organic  
 D - black sandstone

**CORE ANALYSIS SUMMARY SHEET**  
**SEDIMENT SIZE AND COMPOSITION**

ANALYST # NCCL

DATE 2 Jan 64

NAVY LAND DRILLING FROM 1-61

SAMPLE NO.	DEPTH	SAMPLE NO. <u>55 - 24B</u>		TYPE CORE	EFFECTIVE CORE LENGTH (cm)	NOT RECORDED
		DATE TAKEN (DAY, MO., YR.)	DATE DEPTH (cm)			
1. LATITUDE <u>32° 50' S.</u>	<u>5</u>	5. BATH. DEPTH (m)	<u>46.60</u>	6. CORE PENETRATION AND NOT RECORDED		
2. LONGITUDE <u>127° 33' 8.1'</u>						
3. SAMPLE DEPTH IN CORE (cm)	<u>52</u>	7. COLOR (MCA ROCK COLOR CHART)	<u>10YR4/2</u>	8. CORE LENGTH (cm)	<u>66.69</u>	<u>72.75</u>
4. FIELD PLAN DETERMINATION	<u>L</u>	9. COLOR	<u>NONE</u>	10. TYPE CORE	<u>206</u>	
		11. LAT. NONE	<u>NONE</u>	12. EFFECTIVE CORE LENGTH (cm)		
		13. LONG. NONE	<u>NONE</u>	14. ORGANIC CONTENT (%)		
		15. BIOTITE (%)	<u>NONE</u>	16. QUARTZ (%)		
		17. BLACK OPACES (%)	<u>NONE</u>	18. OTHER (%)		
		19. CLAY (%)	<u>NONE</u>	20. OTHER (%)		
		21. SEDIMENT TYPE	<u>CLAY</u>	22. CLAY (%)	<u>CLAY</u>	<u>CLAY</u>
		23. CONSOLIDATED MINERALS *	<u>131</u>	24. CLAY (%)	<u>5-50</u>	<u>5-50</u>
		25. PL. 325 FRACTION	<u>80-72</u>	26. CLAY (%)	<u>0-30</u>	<u>0-30</u>
		27. SEC. MINERALS	<u>131</u>	28. CLAY (%)	<u>0-30</u>	<u>0-30</u>
		29. SORTING COEFFICIENT	<u>-</u>	30. CLAY (%)	<u>0-20</u>	<u>0-15</u>
		31. SKINNERS	<u>-</u>	32. CLAY (%)	<u>0-20</u>	<u>0-15</u>
		33. STANDARD DEVIATION (mm)	<u>-</u>	34. CLAY (%)	<u>0-20</u>	<u>0-15</u>
		35. SEDIMENT TYPE	<u>CLAY</u>	36. CLAY (%)	<u>0-20</u>	<u>0-15</u>
		37. CONSOLIDATED MINERALS *	<u>131</u>	38. CLAY (%)	<u>0-20</u>	<u>0-15</u>
		39. PL. 325 FRACTION	<u>80-72</u>	40. CLAY (%)	<u>0-20</u>	<u>0-15</u>
		41. SEC. MINERALS	<u>131</u>	42. CLAY (%)	<u>0-20</u>	<u>0-15</u>
		43. CALCIUM CARBONATE	<u>5.86</u>	44. CLAY (%)	<u>0-20</u>	<u>0-15</u>
		45. ORGANIC CARBON	<u>131</u>	46. CLAY (%)	<u>0-20</u>	<u>0-15</u>
		47. BLACK OPACES	<u>-</u>	48. CLAY (%)	<u>0-20</u>	<u>0-15</u>
		49. QUARTZ	<u>4.95</u>	50. CLAY (%)	<u>0-20</u>	<u>0-15</u>
		51. OTHER	<u>5.21</u>	52. CLAY (%)	<u>0-20</u>	<u>0-15</u>
		53. CLAY	<u>-</u>	54. CLAY (%)	<u>0-20</u>	<u>0-15</u>
		55. S - SILICEOUS MICROFOSSELS	<u>Q</u>	56. CLAY (%)	<u>0-20</u>	<u>0-15</u>
		57. LIMONITE	<u>L</u>	58. CLAY (%)	<u>0-20</u>	<u>0-15</u>
		59. BLACK OPACES	<u>BO</u>	60. CLAY (%)	<u>0-20</u>	<u>0-15</u>

19. REFERENCES \* S - siliceous microfossils      Q - quartz  
 L - limonite      O - organic  
 BO - black opacates      B - biotite

**CORE ANALYSIS SUMMARY SHEET**  
**SEDIMENT SIZE AND COMPOSITION**

ANALYZED BY N.C.E.L.

DATE 2 Jun 64

MANUFACTURER CONCRETE INDIA LTD.

1. DRILLING NO.		2. DATE NO.	3. DATE TAKEN DAY NO.	4. CORE LENGTH (cm)	5. TYPE CORE	6. CORE LENGTH (cm)	7. CORE PRACTICAL LENGTH (cm)
1. LATITUDE	36° 51' N						
2. LONGITUDE	127° 35' E						
3. DEPTH	78.81						
4. SEDIMENT NUMBER	193-206						
5. SEDIMENT GRAIN SIZE	GRANULAR						
6. SEDIMENT GRAIN DETERMINATION	GRANULAR						
7. COLOR	NONE						
8. SEDIMENT & COMPOSITION ANALYSIS							
A. % Silts	0						
B. % Sand	0						
C. % Gravel	0						
D. % Clay	0						
E. % Organic	0						
F. % Resid.	0						
G. % Grit	0						
H. % Calc.	0						
I. % Iron	0						
J. % Organics	0						
K. % Organics	0						
L. % Organics	0						
M. % Organics	0						
N. % Organics	0						
O. Median Diameter (mm)	0.0000						
P. Sorting Coefficient	—						
Q. Specific Gravity	—						
R. Standard Deviation (mm)	—						
S. Sediment Type	CLAY						
T. Dominant Minerals	100 S-20 O-10						
U. Secondary Minerals (%)	1-5 BD-2						
V. Clayey Calc. Sh.	2.91						
W. Non-clay Calc. Sh.	—						
X. Remarks	—						

**CORE ANALYSIS SUMMARY SHEET**  
**SEDIMENT SIZE AND COMPOSITION**

ANALYZED BY NCEL

DATE 7 Jan 64

MANUFACTURER'S REFERENCE NUMBER

1. TEST NO.	7.5	14. SAMPLE NO.	81-258	17. TYPE (CLAY, SILT, SAND)	CLAY
2. DATE TAKEN (MM. DD. YY.)	12/5/63	15. GRAIN SIZE (mm.)	18.5, 6.3	18. CORE LENGTH (cm.)	2/3
3. TESTER	438-N	16. HAVING DEPTH (m.)	4 m. 30 cm.	19. CORE PENETRATION (cm.)	1/17
4. TESTER NO.	12/5/63	17. 1/5	25-21	20. 1/5	42.45
5. TESTER NO.	12/5/63	18. 1/5	30-27	21. 1/5	51.57
6. TESTER NO.	12/5/63	19. 1/5	35-33	22. 1/5	40.43
7. TESTER NO.	12/5/63	20. 1/5	53-56	23. 1/5	60.36
8. TESTER NO.	12/5/63	21. 1/5	61-68	24. 1/5	70.75
9. TESTER NO.	12/5/63	22. 1/5	76-78	25. 1/5	85-175/16.3-150
10. TESTER NO.	12/5/63	23. 1/5	85-100	26. 1/5	107-114
11. TESTER NO.	12/5/63	24. 1/5	100-110	27. 1/5	122-150
12. TESTER NO.	12/5/63	25. 1/5	110-120	28. 1/5	137-145
13. TESTER NO.	12/5/63	26. 1/5	120-130	29. 1/5	152-160
14. TESTER NO.	12/5/63	27. 1/5	130-140	30. 1/5	165-175/16.3-150
15. TESTER NO.	12/5/63	28. 1/5	140-150	31. 1/5	180-190
16. TESTER NO.	12/5/63	29. 1/5	150-160	32. 1/5	190-200
17. TESTER NO.	12/5/63	30. 1/5	160-170	33. 1/5	200-210
18. TESTER NO.	12/5/63	31. 1/5	170-180	34. 1/5	210-220
19. TESTER NO.	12/5/63	32. 1/5	180-190	35. 1/5	220-230
20. TESTER NO.	12/5/63	33. 1/5	190-200	36. 1/5	230-240
21. TESTER NO.	12/5/63	34. 1/5	200-210	37. 1/5	240-250
22. TESTER NO.	12/5/63	35. 1/5	210-220	38. 1/5	250-260
23. TESTER NO.	12/5/63	36. 1/5	220-230	39. 1/5	260-270
24. TESTER NO.	12/5/63	37. 1/5	230-240	40. 1/5	270-280
25. TESTER NO.	12/5/63	38. 1/5	240-250	41. 1/5	280-290
26. TESTER NO.	12/5/63	39. 1/5	250-260	42. 1/5	290-300
27. TESTER NO.	12/5/63	40. 1/5	260-270	43. 1/5	300-310
28. TESTER NO.	12/5/63	41. 1/5	270-280	44. 1/5	310-320
29. TESTER NO.	12/5/63	42. 1/5	280-290	45. 1/5	320-330
30. TESTER NO.	12/5/63	43. 1/5	290-300	46. 1/5	330-340
31. TESTER NO.	12/5/63	44. 1/5	300-310	47. 1/5	340-350
32. TESTER NO.	12/5/63	45. 1/5	310-320	48. 1/5	350-360
33. TESTER NO.	12/5/63	46. 1/5	320-330	49. 1/5	360-370
34. TESTER NO.	12/5/63	47. 1/5	330-340	50. 1/5	370-380
35. TESTER NO.	12/5/63	48. 1/5	340-350	51. 1/5	380-390
36. TESTER NO.	12/5/63	49. 1/5	350-360	52. 1/5	390-400
37. TESTER NO.	12/5/63	50. 1/5	360-370	53. 1/5	400-410
38. TESTER NO.	12/5/63	51. 1/5	370-380	54. 1/5	410-420
39. TESTER NO.	12/5/63	52. 1/5	380-390	55. 1/5	420-430
40. MEDIAN DIAMETER (mm.)	0.0010	41. 1/5	0.0009	56. 1/5	0.0008
41. MEDIAN DIAMETER (mm.)	0.0010	42. 1/5	0.0009	57. 1/5	0.0009
42. MEDIAN DIAMETER (mm.)	0.0010	43. 1/5	0.0009	58. 1/5	0.0009
43. MEDIAN DIAMETER (mm.)	0.0010	44. 1/5	0.0009	59. 1/5	0.0009
44. MEDIAN DIAMETER (mm.)	0.0010	45. 1/5	0.0009	60. 1/5	0.0009
45. MEDIAN DIAMETER (mm.)	0.0010	46. 1/5	0.0009	61. 1/5	0.0009
46. MEDIAN DIAMETER (mm.)	0.0010	47. 1/5	0.0009	62. 1/5	0.0009
47. MEDIAN DIAMETER (mm.)	0.0010	48. 1/5	0.0009	63. 1/5	0.0009
48. MEDIAN DIAMETER (mm.)	0.0010	49. 1/5	0.0009	64. 1/5	0.0009
49. MEDIAN DIAMETER (mm.)	0.0010	50. 1/5	0.0009	65. 1/5	0.0009
50. MEDIAN DIAMETER (mm.)	0.0010	51. 1/5	0.0009	66. 1/5	0.0009
51. MEDIAN DIAMETER (mm.)	0.0010	52. 1/5	0.0009	67. 1/5	0.0009
52. MEDIAN DIAMETER (mm.)	0.0010	53. 1/5	0.0009	68. 1/5	0.0009
53. MEDIAN DIAMETER (mm.)	0.0010	54. 1/5	0.0009	69. 1/5	0.0009
54. MEDIAN DIAMETER (mm.)	0.0010	55. 1/5	0.0009	70. 1/5	0.0009
55. MEDIAN DIAMETER (mm.)	0.0010	56. 1/5	0.0009	71. 1/5	0.0009
56. MEDIAN DIAMETER (mm.)	0.0010	57. 1/5	0.0009	72. 1/5	0.0009
57. MEDIAN DIAMETER (mm.)	0.0010	58. 1/5	0.0009	73. 1/5	0.0009
58. MEDIAN DIAMETER (mm.)	0.0010	59. 1/5	0.0009	74. 1/5	0.0009
59. MEDIAN DIAMETER (mm.)	0.0010	60. 1/5	0.0009	75. 1/5	0.0009
60. MEDIAN DIAMETER (mm.)	0.0010	61. 1/5	0.0009	76. 1/5	0.0009
61. MEDIAN DIAMETER (mm.)	0.0010	62. 1/5	0.0009	77. 1/5	0.0009
62. MEDIAN DIAMETER (mm.)	0.0010	63. 1/5	0.0009	78. 1/5	0.0009
63. MEDIAN DIAMETER (mm.)	0.0010	64. 1/5	0.0009	79. 1/5	0.0009
64. MEDIAN DIAMETER (mm.)	0.0010	65. 1/5	0.0009	80. 1/5	0.0009
65. MEDIAN DIAMETER (mm.)	0.0010	66. 1/5	0.0009	81. 1/5	0.0009
66. MEDIAN DIAMETER (mm.)	0.0010	67. 1/5	0.0009	82. 1/5	0.0009
67. MEDIAN DIAMETER (mm.)	0.0010	68. 1/5	0.0009	83. 1/5	0.0009
68. MEDIAN DIAMETER (mm.)	0.0010	69. 1/5	0.0009	84. 1/5	0.0009
69. MEDIAN DIAMETER (mm.)	0.0010	70. 1/5	0.0009	85. 1/5	0.0009
70. MEDIAN DIAMETER (mm.)	0.0010	71. 1/5	0.0009	86. 1/5	0.0009
71. MEDIAN DIAMETER (mm.)	0.0010	72. 1/5	0.0009	87. 1/5	0.0009
72. MEDIAN DIAMETER (mm.)	0.0010	73. 1/5	0.0009	88. 1/5	0.0009
73. MEDIAN DIAMETER (mm.)	0.0010	74. 1/5	0.0009	89. 1/5	0.0009
74. MEDIAN DIAMETER (mm.)	0.0010	75. 1/5	0.0009	90. 1/5	0.0009
75. MEDIAN DIAMETER (mm.)	0.0010	76. 1/5	0.0009	91. 1/5	0.0009
76. MEDIAN DIAMETER (mm.)	0.0010	77. 1/5	0.0009	92. 1/5	0.0009
77. MEDIAN DIAMETER (mm.)	0.0010	78. 1/5	0.0009	93. 1/5	0.0009
78. MEDIAN DIAMETER (mm.)	0.0010	79. 1/5	0.0009	94. 1/5	0.0009
79. MEDIAN DIAMETER (mm.)	0.0010	80. 1/5	0.0009	95. 1/5	0.0009
80. MEDIAN DIAMETER (mm.)	0.0010	81. 1/5	0.0009	96. 1/5	0.0009
81. MEDIAN DIAMETER (mm.)	0.0010	82. 1/5	0.0009	97. 1/5	0.0009
82. MEDIAN DIAMETER (mm.)	0.0010	83. 1/5	0.0009	98. 1/5	0.0009
83. MEDIAN DIAMETER (mm.)	0.0010	84. 1/5	0.0009	99. 1/5	0.0009
84. MEDIAN DIAMETER (mm.)	0.0010	85. 1/5	0.0009	100. 1/5	0.0009
85. MEDIAN DIAMETER (mm.)	0.0010	86. 1/5	0.0009	101. 1/5	0.0009
86. MEDIAN DIAMETER (mm.)	0.0010	87. 1/5	0.0009	102. 1/5	0.0009
87. MEDIAN DIAMETER (mm.)	0.0010	88. 1/5	0.0009	103. 1/5	0.0009
88. MEDIAN DIAMETER (mm.)	0.0010	89. 1/5	0.0009	104. 1/5	0.0009
89. MEDIAN DIAMETER (mm.)	0.0010	90. 1/5	0.0009	105. 1/5	0.0009
90. MEDIAN DIAMETER (mm.)	0.0010	91. 1/5	0.0009	106. 1/5	0.0009
91. MEDIAN DIAMETER (mm.)	0.0010	92. 1/5	0.0009	107. 1/5	0.0009
92. MEDIAN DIAMETER (mm.)	0.0010	93. 1/5	0.0009	108. 1/5	0.0009
93. MEDIAN DIAMETER (mm.)	0.0010	94. 1/5	0.0009	109. 1/5	0.0009
94. MEDIAN DIAMETER (mm.)	0.0010	95. 1/5	0.0009	110. 1/5	0.0009
95. MEDIAN DIAMETER (mm.)	0.0010	96. 1/5	0.0009	111. 1/5	0.0009
96. MEDIAN DIAMETER (mm.)	0.0010	97. 1/5	0.0009	112. 1/5	0.0009
97. MEDIAN DIAMETER (mm.)	0.0010	98. 1/5	0.0009	113. 1/5	0.0009
98. MEDIAN DIAMETER (mm.)	0.0010	99. 1/5	0.0009	114. 1/5	0.0009
99. MEDIAN DIAMETER (mm.)	0.0010	100. 1/5	0.0009	115. 1/5	0.0009
100. MEDIAN DIAMETER (mm.)	0.0010	101. 1/5	0.0009	116. 1/5	0.0009
101. MEDIAN DIAMETER (mm.)	0.0010	102. 1/5	0.0009	117. 1/5	0.0009
102. MEDIAN DIAMETER (mm.)	0.0010	103. 1/5	0.0009	118. 1/5	0.0009
103. MEDIAN DIAMETER (mm.)	0.0010	104. 1/5	0.0009	119. 1/5	0.0009
104. MEDIAN DIAMETER (mm.)	0.0010	105. 1/5	0.0009	120. 1/5	0.0009
105. MEDIAN DIAMETER (mm.)	0.0010	106. 1/5	0.0009	121. 1/5	0.0009
106. MEDIAN DIAMETER (mm.)	0.0010	107. 1/5	0.0009	122. 1/5	0.0009
107. MEDIAN DIAMETER (mm.)	0.0010	108. 1/5	0.0009	123. 1/5	0.0009
108. MEDIAN DIAMETER (mm.)	0.0010	109. 1/5	0.0009	124. 1/5	0.0009
109. MEDIAN DIAMETER (mm.)	0.0010	110. 1/5	0.0009	125. 1/5	0.0009
110. MEDIAN DIAMETER (mm.)	0.0010	111. 1/5	0.0009	126. 1/5	0.0009
111. MEDIAN DIAMETER (mm.)	0.0010	112. 1/5	0.0009	127. 1/5	0.0009
112. MEDIAN DIAMETER (mm.)	0.0010	113. 1/5	0.0009	128. 1/5	0.0009
113. MEDIAN DIAMETER (mm.)	0.0010	114. 1/5	0.0009	129. 1/5	0.0009
114. MEDIAN DIAMETER (mm.)	0.0010	115. 1/5	0.0009	130. 1/5	0.0009
115. MEDIAN DIAMETER (mm.)	0.0010	116. 1/5	0.0009	131. 1/5	0.0009
116. MEDIAN DIAMETER (mm.)	0.0010	117. 1/5	0.0009	132. 1/5	0.0009
117. MEDIAN DIAMETER (mm.)	0.0010	118. 1/5	0.0009	133. 1/5	0.0009
118. MEDIAN DIAMETER (mm.)	0.0010	119. 1/5	0.0009	134. 1/5	0.0009
119. MEDIAN DIAMETER (mm.)	0.0010	120. 1/5	0.0009	135. 1/5	0.0009
120. MEDIAN DIAMETER (mm.)	0.0010	121. 1/5	0.0009	136. 1/5	0.0009
121. MEDIAN DIAMETER (mm.)	0.0010	122. 1/5	0.0009	137. 1/5	0.0009
122. MEDIAN DIAMETER (mm.)	0.0010	123. 1/5	0.0009	138. 1/5	0.0009
123. MEDIAN DIAMETER (mm.)	0.0010	124. 1/5	0.0009	139. 1/5	0.0009
124. MEDIAN DIAMETER (mm.)	0.0010	125. 1/5	0.0009	140. 1/5	0.0009
125. MEDIAN DIAMETER (mm.)	0.0010	126. 1/5	0.0009	141. 1/5	0.0009
126. MEDIAN DIAMETER (mm.)	0.0010	127. 1/5	0.0009	142. 1/5	0.0009
127. MEDIAN DIAMETER (mm.)	0.0010	128. 1/5	0.0009	143. 1/5	0.0009
128. MEDIAN DIAMETER (mm.)	0.0010	129. 1/5	0.0009	144. 1/5	0.0009
129. MEDIAN DIAMETER (mm.)	0.0010	130. 1/5	0.0009	145. 1/5	0.0009
130. MEDIAN DIAMETER (mm.)	0.0010	131. 1/5	0.0009	146. 1/5	0.0009
131. MEDIAN DIAMETER (mm.)	0.0010	132. 1/5	0.0009	147. 1/5	0.0009
132. MEDIAN DIAMETER (mm.)	0.0010	133. 1/5	0.0009	148. 1/5	0.0009
133. MEDIAN DIAMETER (mm.)	0.0010	134. 1/5	0.0009	149. 1/5	0.0009
134. MEDIAN DIAMETER (mm.)	0.0010	135. 1/5	0.0009	150. 1/5	0.0009
135. MEDIAN DIAMETER (mm.)	0.0010	136. 1/5	0.0009	151. 1/5	0.0009
136. MEDIAN DIAMETER (mm.)	0.0010	137. 1/5	0.0009	152. 1/5	0.0009
137. MEDIAN DIAMETER (mm.)	0.0010	138. 1/5	0.0009	153. 1/5	0.0009
138. MEDIAN DIAMETER (mm.)	0.0010	139. 1/5	0.0009	154. 1/5	0.0009
139. MEDIAN DIAMETER (mm.)	0.0010	140. 1/5	0.0009	155. 1/5	0.0009
140. MEDIAN DIAMETER (mm.)	0.0010	141. 1/5	0.0009	156. 1/5	0.0009
141. MEDIAN DIAMETER (mm.)	0.0010	142. 1/5	0.0009	157. 1/5	0.0009
142. MEDIAN DIAMETER (mm.)</td					

**CORE ANALYSIS SUMMARY SHEET**  
**SEDIMENT SIZE AND COMPOSITION**

ANALYZED IN NCEL

DATE 7 Jan 64

SAMPLE NO.		B5-255		7. TYPE CORE Coring		8. CORE LENGTH (cm)		9. CORE PENETRATION AND NOT RECORDED	
SAMPLE NO.	D-5	DATE TAKEN (DAY, MO., YR.)	18/5/63						
ATLANTIC	36° 43.8' N	WATER DEPTH (m)	4600						
LONG. OF	121° 50.1' W								
ANALYST NUMBER	78-61								
UNITS FOR DENSITY & GRAVITY	1.0272								
HIGH & LOW GRAVITY	5138.4								
LAB IDENTIFICATION	7								
JOUP	SPHEET								
4. SEDIMENT COMPOSITION ANALYSIS									
1.	0.02	mm (S)	0						
2.	0.2	mm (S)	0						
3.	0.4	mm (S)	0						
4.	0.6	mm (S)	0						
5.	0.8	mm (S)	0						
6.	1.0	mm (S)	0						
7.	1.2	mm (S)	0						
8.	1.4	mm (S)	0						
9.	1.6	mm (S)	0						
10.	1.8	mm (S)	0						
11.	2.0	mm (S)	0						
12.	2.2	mm (S)	0						
13.	2.4	mm (S)	0						
14.	2.6	mm (S)	0						
15.	2.8	mm (S)	0						
16.	3.0	mm (S)	0						
17.	3.2	mm (S)	0						
18.	3.4	mm (S)	0						
19.	3.6	mm (S)	0						
20.	3.8	mm (S)	0						
21.	4.0	mm (S)	0						
22.	4.2	mm (S)	0						
23.	4.4	mm (S)	0						
24.	4.6	mm (S)	0						
25.	4.8	mm (S)	0						
26.	5.0	mm (S)	0						
27.	5.2	mm (S)	0						
28.	5.4	mm (S)	0						
29.	5.6	mm (S)	0						
30.	5.8	mm (S)	0						
31.	6.0	mm (S)	0						
32.	6.2	mm (S)	0						
33.	6.4	mm (S)	0						
34.	6.6	mm (S)	0						
35.	6.8	mm (S)	0						
36.	7.0	mm (S)	0						
37.	7.2	mm (S)	0						
38.	7.4	mm (S)	0						
39.	7.6	mm (S)	0						
40.	7.8	mm (S)	0						
41.	8.0	mm (S)	0						
42.	8.2	mm (S)	0						
43.	8.4	mm (S)	0						
44.	8.6	mm (S)	0						
45.	8.8	mm (S)	0						
46.	9.0	mm (S)	0						
47.	9.2	mm (S)	0						
48.	9.4	mm (S)	0						
49.	9.6	mm (S)	0						
50.	9.8	mm (S)	0						
51.	10.0	mm (S)	0						
52.	10.2	mm (S)	0						
53.	10.4	mm (S)	0						
54.	10.6	mm (S)	0						
55.	10.8	mm (S)	0						
56.	11.0	mm (S)	0						
57.	11.2	mm (S)	0						
58.	11.4	mm (S)	0						
59.	11.6	mm (S)	0						
60.	11.8	mm (S)	0						
61.	12.0	mm (S)	0						
62.	12.2	mm (S)	0						
63.	12.4	mm (S)	0						
64.	12.6	mm (S)	0						
65.	12.8	mm (S)	0						
66.	13.0	mm (S)	0						
67.	13.2	mm (S)	0						
68.	13.4	mm (S)	0						
69.	13.6	mm (S)	0						
70.	13.8	mm (S)	0						
71.	14.0	mm (S)	0						
72.	14.2	mm (S)	0						
73.	14.4	mm (S)	0						
74.	14.6	mm (S)	0						
75.	14.8	mm (S)	0						
76.	15.0	mm (S)	0						
77.	15.2	mm (S)	0						
78.	15.4	mm (S)	0						
79.	15.6	mm (S)	0						
80.	15.8	mm (S)	0						
81.	16.0	mm (S)	0						
82.	16.2	mm (S)	0						
83.	16.4	mm (S)	0						
84.	16.6	mm (S)	0						
85.	16.8	mm (S)	0						
86.	17.0	mm (S)	0						
87.	17.2	mm (S)	0						
88.	17.4	mm (S)	0						
89.	17.6	mm (S)	0						
90.	17.8	mm (S)	0						
91.	18.0	mm (S)	0						
92.	18.2	mm (S)	0						
93.	18.4	mm (S)	0						
94.	18.6	mm (S)	0						
95.	18.8	mm (S)	0						
96.	19.0	mm (S)	0						
97.	19.2	mm (S)	0						
98.	19.4	mm (S)	0						
99.	19.6	mm (S)	0						
100.	19.8	mm (S)	0						
101.	20.0	mm (S)	0						
102.	20.2	mm (S)	0						
103.	20.4	mm (S)	0						
104.	20.6	mm (S)	0						
105.	20.8	mm (S)	0						
106.	21.0	mm (S)	0						
107.	21.2	mm (S)	0						
108.	21.4	mm (S)	0						
109.	21.6	mm (S)	0						
110.	21.8	mm (S)	0						
111.	22.0	mm (S)	0						
112.	22.2	mm (S)	0						
113.	22.4	mm (S)	0						
114.	22.6	mm (S)	0						
115.	22.8	mm (S)	0						
116.	23.0	mm (S)	0						
117.	23.2	mm (S)	0						
118.	23.4	mm (S)	0						
119.	23.6	mm (S)	0						
120.	23.8	mm (S)	0						
121.	24.0	mm (S)	0						
122.	24.2	mm (S)	0						
123.	24.4	mm (S)	0						
124.	24.6	mm (S)	0						
125.	24.8	mm (S)	0						
126.	25.0	mm (S)	0						
127.	25.2	mm (S)	0						
128.	25.4	mm (S)	0						
129.	25.6	mm (S)	0						
130.	25.8	mm (S)	0						
131.	26.0	mm (S)	0						
132.	26.2	mm (S)	0						
133.	26.4	mm (S)	0						
134.	26.6	mm (S)	0						
135.	26.8	mm (S)	0						
136.	27.0	mm (S)	0						
137.	27.2	mm (S)	0						
138.	27.4	mm (S)	0						
139.	27.6	mm (S)	0						
140.	27.8	mm (S)	0						
141.	28.0	mm (S)	0						
142.	28.2	mm (S)	0						
143.	28.4	mm (S)	0						
144.	28.6	mm (S)	0						
145.	28.8	mm (S)	0						
146.	29.0	mm (S)	0						
147.	29.2	mm (S)	0						
148.	29.4	mm (S)	0						
149.	29.6	mm (S)	0						
150.	29.8	mm (S)	0						
151.	30.0	mm (S)	0						
152.	30.2	mm (S)	0						
153.	30.4	mm (S)	0						
154.	30.6	mm (S)	0						
155.	30.8	mm (S)	0						
156.	31.0	mm (S)	0						
157.	31.2	mm (S)	0						
158.	31.4	mm (S)	0						
159.	31.6	mm (S)	0						
160.	31.8	mm (S)	0						
161.	32.0	mm (S)	0						
162.	32.2	mm (S)	0						
163.	32.4	mm (S)	0						
164.	32.6	mm (S)	0						
165.	32.8	mm (S)	0						
166.	33.0	mm (S)	0						
167.	33.2	mm (S)	0						
168.	33.4	mm (S)	0						
169.	33.6	mm (S)	0						
170.	33.8	mm (S)	0						
171.	34.0	mm (S)	0						
172.	34.2	mm (S)	0						
173.	34.4	mm (S)	0						
174.	34.6	mm (S)	0						
175.	34.8	mm (S)	0						
176.	35.0	mm (S)	0</						